Cybersecurity and OT

Jacobs

Secure by design. Our Cybersecurity and OT solutions ensure operational resilience, regulatory compliance, and safety for critical infrastructure. By integrating proactive risk mitigation, incident recovery, and deep domain expertise, we enhance system security and resilience, enabling clients to confidently navigate the evolving cybersecurity threat landscape and support critical operations.

THE CHALLENGE

Critical infrastructure sectors such as water, transportation, energy, and manufacturing are increasingly becoming frequent targets of cyber-attacks worldwide. These industries rely heavily on OT systems, which, when compromised, can lead to operational disruptions, safety risks, regulatory penalties, and significant financial losses. Many organizations struggle to find OT cybersecurity solutions that address their specific operational and safety needs and evolving threats such as ransomware, insider threats, and hacktivists.

OUR SOLUTION

Our Cybersecurity & OT team provides expert guidance and tailored solutions for strengthening the resilience of our critical infrastructure clients. Through consultative services and operations and maintenance capabilities, we assist clients in reducing vulnerabilities, recovering from industrial cyber incidents, and maintaining compliance with industry regulations—ultimately helping to enhance security without compromising operational and safety goals.

FEATURES

Secure OT Network Designs and SCADA Integration

Including Zero Trust principles and robust system architecture.

OT Cyber Preparedness and Regulatory Compliance

Incident response plans, playbooks, post-incident resilience, and compliance with industry standards (e.g., NERC CIP, AWIA, RRA).

OT Managed Services

Cybersecurity monitoring, SIEM/SOAR, threat detection, operational visibility, maintenance and system remediation.

OT Cybersecurity Professional Services and Advanced Technologies

Penetration testing, threat hunting, cyber risk assessments, cyber maturity model development, and expertise in IoT/IIoT, Radio Telemetry, and Digital Access Control.

KEY BENEFITS

Operational Resilience and Incident Recovery

Strengthen OT system reliability, minimize downtime, and enable rapid post-incident recovery to reduce long-term disruptions and financial loss.

Tailored Expertise and Secure Design

Leverage industry-specific expertise to mitigate unique vulnerabilities, and implement secure OT architectures, including Zero Trust frameworks.

Regulatory Compliance and Cost Efficiency

Ensure compliance with evolving standards, avoid regulatory penalties, and deliver cost-effective security solutions to minimize financial impact.

Post-Incident Resilience

Rebuild and enhance OT systems after cyber incidents, ensuring improved resilience and readiness for future threats.

OUR APPROACH

End-to-End Service

Jacobs offers an end-to-end solution from design and implementation to long-term management, seamlessly integrating cybersecurity into OT environments.

Proven Expertise

Our deep bench of experts across OT and IT systems means that clients benefit from both operational knowledge and cybersecurity best practices.

Innovation and Leadership

Jacobs integrates new technologies like Zero Trust architecture and advanced SCADA design, ensuring clients can handle current and emerging cyber threats and operational deficiencies.

SUCCESS STORIES

Water Sector

Jacobs implemented SCADA network integration and cybersecurity architecture for the largest water treatment plant (NEWPP) and designed OT network and technology integration for Wilmington's WWTP.

Defense Sector

Jacobs partnered with a top 3 US defense contractor to integrate OT network designs with Zero Trust cybersecurity for the Bacchus LEO Prime Expansion Project.

Email **cybersecurityOT@jacobs.com** to find out more.

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