Cybersecurity & Manufacturing
Why Security Now?

Manufacturing Companies are at Risk.

♦ **25% of total cyberattacks** targeted manufacturers in 2022, making it the **most attacked industry** for two years straight. Manufacturers were targeted in **58% of attacks** against Operational Technology (OT), with threat actors using new OT-specific malware and exploiting legacy technology, unpatched vulnerabilities, weak segmentation, and deprecated encryption[1].

♦ **9% of total security incidents and breaches** affected manufacturers in 2022, the fourth highest of any industry. Denial of Service attacks account for approximately **67% of incidents**, disrupting the organization's system availability and ability to meet deadlines[2].

♦ With the advent of Industry 4.0, **IT/OT convergence** empowers businesses to improve agility, adaptability, and competitiveness. Internet of Things (IoT) and other smart factory technologies are more connected in today's operational environment and at **significant risk of cyberattacks**[3].

Cyberattacks are Expensive.
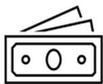
♦ The average cost of an industrial data breach was **$4.47 million** in 2022, a 5.4% increase over the previous year.[4]

♦ Attackers extorted manufacturers in **32% of incidents**, taking advantage of their low tolerance for downtime[1]. **96% of attackers** against manufacturing were financially motivated[2].

Compliance Requirements are Changing.

♦ In 2021 **Executive Order 14005** established a substantial role for the **Manufacturing Extension Partnership (MEP)** National Network which bolsters American manufacturing oversight.[5]

♦ **Executive Order 14028** resulted in new cybersecurity standards and requirements for IT and OT, supply chain risk management, information sharing, incident response, and more[6].

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[1] X-Force Threat Intelligence Index 2023, IBM
[2] 2023 Data Breach Investigation Report, Verizon
[3] IT/OT Convergence in Critical Infrastructure and Industrials White Paper, 9/30/22, CISCO
[4] Cost of a Data Breach Report 2022, IBM
[5] Executive Order on Ensuring the Future Is Made in All of America by All of America's Workers, 06/12/23 https://www.nist.gov/mep/executive-order-14005
[6] Executive Order on Improving the Nation's Cybersecurity, 5/12/21, https://www.whitehouse.gov/briefing-room/presidential-actions/2021/05/12/executive-order-on-improving-the-nations-cybersecurity/

TCecure and Trifecta bring unique complementary skills to serve manufacturers.

Knowledge – Our expert staff has decades of experience and industry-recognized certifications in project management, cybersecurity, IT, and OT technologies (PMP, CISSP, CISA, GISCP, GCIP, GRID, and more).

Experience – We provide cybersecurity consulting, solutions, and education to large and small businesses, as well as public sector entities.

Value Adds – We offer CyDeploy™, an automated tool that tests security updates to identify/prevent operational impact, and CySkills™, a customizable Learning Management System for on-demand training.

Affordability – We customize services at a price you can afford. Plus, TCecure was the first Qualified Maryland Cybersecurity Seller, so qualified MD buyers receive a tax credit for working with us!

Our Services

Cybersecurity Consulting – Achieve compliance, protect your assets, and differentiate your business with a robust cybersecurity program. Develop and implement a program to assess and monitor the cybersecurity practices and risks of your supply chain partners. We provide expertise in regulations and requirements, emerging threats and changes, program development and implementation, and documentation.

Risk Assessment & Management – Develop a roadmap to reduce your exposure to cybersecurity risks. We identify threats and vulnerabilities, assess the likelihood and impact of exploitation, then develop and prioritize mitigation strategies. We provide a plan to bolster your security posture and decrease likelihood of a breach.

Security Engineering – Protect assets and limit operational disruptions. We develop, test, and implement security strategies to harden your IT and OT against attacks, like segmentation, encryption, and authentication. We specialize in continuous monitoring, managing configurations and patches to prevent bad actors from exploiting weaknesses.

Training & Education – Prevent cyberattacks with a knowledgeable workforce that does not fall victim to social engineering. Upskill personnel across your entire organization so they understand the threat environment and importance of cyber hygiene. We develop and deliver education and training tailored to your goals and desired modalities.

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