



Product Development Security Assessment from GE Digital

A comprehensive security evaluation for ICS development and deployment

Gain actionable insights for resolving security weaknesses

Industrial control systems (ICS) and SCADA systems are experiencing a rapidly increasing rate of network-based cyber incidents, putting production, reputation, and profits at risk. Automation manufacturers and system integrators need to address the elevated risk of product exploitation in ICS, while also preparing for looming compliance requirements with rapidly emerging standards (e.g. IEC 62443).

To help mitigate risks and enable compliance, GE Digital's Cyber Security Services offer assessments with actionable results, based on technical expertise developed over many years as a leader in industrial security assessments, protection, and certification.

GE Digital's cyber security customers include 5 of the top 6 super-major energy companies, and 9 of the top 10 automation vendors.

01 Business challenge

As industrial control systems become increasingly connected, the threat of a successful cyber attack greatly increases. Automation manufacturers, system integrators, and service providers are under tremendous pressure to mitigate the elevated risk of product exploitation, while also preparing for imminent compliance requirements to align with relevant industry standards, regulations, and best practices.

02 Solution

Product Development Security Assessment from GE Digital is a comprehensive evaluation of industrial automation manufacturers and system integrators' adherence to cyber security best practices for the development and deployment of ICS systems and devices. It includes assessing a product development team and one or more of their products. The results reduce the risk of a public breach by resolving security weaknesses during product development.

The security assessments are delivered by established industry experts who contribute and author industry standards (such as IEC 62443), and include actionable results to support immediate security risk remediation for better product development planning.

03 Benefits

- **Improves product security** by addressing product weaknesses during development to reduce the risk of a public breach
- **Reduces product costs** by lowering the cost of remediation of security risks typically found after product deployment
- **Enhances compliance efforts** by aligning process improvement recommendations with relevant industry standards, regulations, and best practices
- **Provides a competitive advantage** with customers who have supplier compliance requirements



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Features

Each assessment includes:

- **Preparation:** Scope applicable standards and tailor tools to assessment target
- **Information gathering:** Request relevant customer documentation relating to people, architecture, and technology
- **Documentation review:** Review customer process and architecture documentation
- **Findings report:** Generate results designed to facilitate an action plan
- **Interviews and inspection:** Survey site and meet with managers, architects, and engineers to gain process and contextual information beyond the documentation
 - Evaluate the security development lifecycle for security practices that assist in delivering secure products to include:
 - › Cyber security strategy and processes
 - › Verification and validation
 - › Third-party code validated for security
 - › Base security features in delivered products
 - › Secure coding practices and testing
 - › Security designed into the product
 - › Secure components from suppliers
 - Align with standards such as IEC 62443-2-4 and BSIMM

OUTCOMES

Delivers actionable results	Supports immediate security risk remediation for better product development planning.
Provides brand protection	Reduces the risk of a public breach in your product
Enables compliance readiness	Aligns your processes with industry best practices (IEC 62443 and BSIMM)
Supplies higher ROI	Leverages process improvement recommendations to increase product quality and reduce issues after deployment
Creates a competitive advantage	Wins customers who have supplier compliance requirements

Deliverables

- Reports
 - Executive summary and charts
 - Qualitative and quantitative analysis results
 - Customized, prioritized, and actionable recommendations
 - Organization results regarding secure development best practices, patch management, physical security, security strategy, and metrics
 - Product results regarding secure development lifecycle, architecture, deployment, design requirements, standards, and user documentation
- Site survey results
 - Workbook with data extraction options

GE Digital helps you harden your security posture and prepare to succeed in the new digital industrial landscape.

LEARN MORE





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Services

In the world of Industrial Internet of Things (IIoT), organizations are able to optimize productivity, reduce costs, and achieve operational excellence. While this is an exciting time for opportunity and growth, it can also bring on new challenges, questions, and uncertainty. No matter where you are on your IIoT journey, GE Digital has the right services offering for you.

Advisory Services We can help you plan and start your IIoT journey in a way that aligns to your specific business outcomes.

Managed Services We can help you maintain your critical machines from one of our remote locations around the world using model-based predictive-analytic technology.

Implementation Services Our team will help develop a collaborative, multi-generational plan that will marry your existing investments to the right process enhancements and technology.

Education Services We specialize in education services to ensure that you're leveraging our solutions to the fullest extent with our training and certificate programs.

GlobalCare Support Services Let us help by ensuring that your business continues to operate at its highest efficiency, all while mitigating risks to your investments.

Cyber Security Services Our solutions provide industrial-grade security for a wide range of OT network and application topologies.

Related products

GE Digital's OT cyber security suite helps protect industrial and healthcare companies against misconfigured devices and unplanned downtime due to cyber incidents. We can help you test, certify, and secure industrial connected devices, applications, and processes.



[OpShield](#) →

Designed to help protect critical infrastructure and controls network by defending the processes, communications, and assets that underpin your control strategy.



[Achilles Test Platform](#) →

Build in product security. Achilles Test Platform discovers vulnerabilities and faults to be reproduced, isolated, identified, and resolved before product introduction.

PREDIX

[Predix](#) →

Innovate and transform your business with the cloud-based operating system for the Industrial Internet, purpose-built for industry.

Continue your IIoT journey

Transforming your business requires innovative foundational solutions that lay the groundwork for optimized performance.



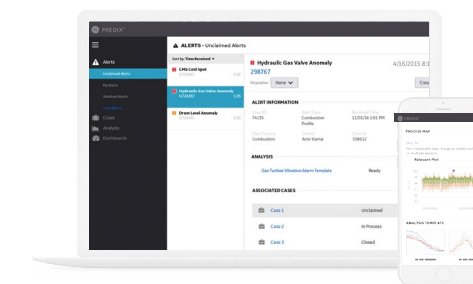
[Historian](#) →

Optimize asset and plant performance through time-series industrial data collection and aggregation, leveraging Predix IIoT connectivity.



[iFIX](#) →

Gain visibility into your operations and secure agility for smarter decision making that drives results.



[Asset Performance Management](#) →

Move from reactive to proactive maintenance to reduce unplanned downtime, minimize maintenance costs, improve efficiency and extend asset life.

About GE

GE (NYSE: GE) is the world's Digital Industrial Company, transforming industry with software-defined machines and solutions that are connected, responsive and predictive. GE is organized around a global exchange of knowledge, the "GE Store," through which each business shares and accesses the same technology, markets, structure and intellect. Each invention further fuels innovation and application across our industrial sectors. With people, services, technology and scale, GE delivers better outcomes for customers by speaking the language of industry.

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