



EMPOWERING IOT INNOVATION WITH END-TO-END SECURITY

The rise of connected devices brings unprecedented opportunity—and risk. Security Innovation empowers IoT companies to innovate securely by providing end-to-end cybersecurity services tailored to the unique demands of IoT ecosystems. Whether you're developing smart home devices, industrial automation systems, or medical technology, we ensure your products are resilient to today's and tomorrow's threats.

OUR IOT SECURITY SERVICES



○ PROCESS ASSESSMENTS

We evaluate and optimize your development and operational processes to ensure security is built into every stage of your IoT product lifecycle—from concept to deployment.

○ APPLICATION SECURITY ASSESSMENTS

Our team performs in-depth code reviews, vulnerability testing, and design evaluations to identify security gaps and fortify the software layer of your IoT devices.

○ DEPLOYMENT SECURITY

We provide comprehensive assessments of how your IoT devices integrate with larger networks and systems, securing communications protocols, firmware, APIs, and cloud infrastructure to mitigate risks during and after deployment.



WHY CHOOSE SECURITY INNOVATION FOR IOT SECURITY

END-TO-END IOT SECURITY EXPERTISE

We deliver proactive, full-stack IoT security services across hardware, software, and communications layers, securing every aspect of your connected systems.

TAILORED SOLUTIONS FOR INDUSTRY-SPECIFIC NEEDS

Our cybersecurity experts provide customized strategies that align with the specific risks and compliance demands of industries like healthcare, manufacturing, and consumer electronics.

ACCELERATE INNOVATION WITH REDUCED RISK

Our services integrate seamlessly into your IoT development process, enabling you to bring new products to market faster while ensuring they meet the highest standards of security and reliability.



IIOT CYBERSECURITY EXPERIENCE

With proven experience across diverse IIOT ecosystems, Security Innovation is your trusted partner for building secure, innovative, and resilient IIOT solutions. We help you stay ahead of emerging threats while maintaining the trust of your customers and meeting regulatory requirements.

SMART HOME DEVICES

- Conducted penetration testing and security assessments for wireless door locks, video doorbells, and smart speakers.
- Secured various entertainment devices, including set-top boxes and media streaming apps for smart TVs.
- Ensured the security of voice-controlled intelligent personal assistant systems.

MEDICAL IIOT DEVICES

- Performed security testing on connected medical devices, including smart pumps used in clinical settings.
- Conducted penetration testing and secure code reviews for implantable devices and healthcare monitoring tools.
- Supported regulatory compliance for real-time, in-patient monitoring systems.

INDUSTRIAL IIOT (IIOT)

- Secured programmable logic controllers (PLCs) used in industrial automation, including factory monitoring systems.
- Conducted code reviews and penetration tests for energy management systems and predictive maintenance tools in manufacturing environments.
- Provided architectural reviews and security assessments for chip fabrication and photolithography equipment.

COMMERCIAL IIOT

- Secured building access control (BAC) systems, ensuring data integrity for office security environments.
- Conducted penetration tests and security audits for point-of-sale (PoS) devices used in retail settings.
- Provided security assessments for HVAC systems and smart lighting solutions used in commercial environments.

CONSUMER IIOT

- Performed penetration testing for connected devices like smart thermostats, wearables, and home alarm systems.
- Conducted firmware provisioning and validation tests for smart home appliances.
- Delivered full-stack security assessments for mobile phone firmware, NFC hardware, and secure boot systems.

PAYMENT AND FINANCIAL SYSTEMS

- Tested the security of cryptocurrency wallets and payment processing devices.
- Conducted attack simulations and penetration testing for hardware security modules (HSMs) in financial applications.

AUTOMOTIVE IIOT

- Reviewed the architecture and security of embedded systems used in vehicle control, including ECUs (engine control units).
- Assessed the security of infotainment systems and wireless communication modules within vehicles.

SATELLITE AND COMMUNICATIONS SYSTEMS

- Conducted penetration tests and security reviews for satellite-to-ground communication systems.
- Secured IIOT communication protocols, including GSM, Bluetooth, ZigBee, Z-Wave, and RFID, for large-scale deployments.

CORPORATE IIOT DEVICES

- Provided penetration tests and security assessments for secure tablets, punch clocks, and factory automation systems.
- Assessed the security of IIOT routers and network devices used in corporate environments.

IIOT CYBERSECURITY EXPERIENCE

Backed by decades of cybersecurity expertise and the resources of Bureau Veritas, Security Innovation has a proven track record of securing IIOT systems for industry-leading companies. Our engagements span industries from consumer electronics to critical infrastructure, ensuring that your IIOT products and data remain secure, compliant, and trusted by customers.