

CASE STUDY

"At COE Security, we build, operate, and transfer world-class security solutions, empowering businesses with resilience and trust."

Joseph Henderson



COE SECURITY LLC

USA | BRAZIL | UAE | INDIA



CASE STUDY

STRENGTHENING CYBER RESILIENCE FOR IOT COMPLIANCE



Measurable Impact Our Security in Numbers



- 1,500+ Global Engagements
- 95% Client Satisfaction
- 10+ Years of Cybersecurity Excellence
- 15K+ Critical Vulnerabilities Identified
- 1M+ Security Incidents Managed
- \$350M+ Costs Saved
- \$2.5B+ Transactions Secured
- 24/7/365 Threat Monitoring & Response
- Proactive Threat Hunting
- Cutting-Edge Security Technologies
- Dedicated Security Advisors
- Zero-Day Exploit Mitigation
- Incident Response Planning & Execution
- Security Awareness Training
- Customizable Security Solutions

Client Profile

A European-based electronics manufacturer with over 15,000 employees and a global distribution network. The client specializes in IoT-enabled consumer devices and industrial sensors. The impending enforcement of the EU Cyber Resilience Act (CRA) and updated RED Directive (EN-18031) triggered an urgent need for robust cyber posture enhancements and product security compliance.

Challenges Faced

- Key security concerns included: Inadequate Secure Software Development Lifecycle (SSDLC) integration
- Lack of transparency and documentation in product security
- No structured vulnerability disclosure process
- Non-compliance with upcoming EN-18031 cybersecurity assessment standards

Solution

COE Security implemented a tailored Cyber Resilience Compliance Program, combining:

1. Product Security Baseline Review: Mapped existing product features against EN-18031 control requirements
2. SSDLC Integration: Built security checkpoints into CI/CD pipeline, including automated code analysis
3. Coordinated Vulnerability Disclosure (CVD): Established a transparent policy and triage process for external security reports
4. Compliance Dashboard: Delivered a real-time portal for CRA readiness, including remediation workflows and executive reporting

**We're
Hiring!**



Compliance & Regulatory Mastery



- ISO 45001
- HIPAA & HITRUST
- NIST & NIST 800-171
- ISO 27001
- PCI DSS
- CMMC
- CIS Controls
- SOC 2
- CCPA & NYDFS
- EU CRA
- FedRAMP
- GDPR
- UK Cyber Essentials
- Essential Eight - Australia

**We're
Hiring!**

Product Security Transformation

- Performed EN-18031 gap analysis across 12 flagship products
- Remediated firmware hardcoded credentials and insecure data transmission
- Introduced SBOM (Software Bill of Materials) for all products
- Integrated SAST/DAST tools into development pipelines
- Standardized product risk assessments and classification by criticality

Governance, Risk, and Compliance Leadership

- Created Product Security Governance Framework aligned with ISO/IEC 27400
- Onboarded a cross-functional Product Security Working Group
- Defined risk acceptance criteria based on NIS2 and CRA principles
- Enabled quarterly CRA/RED audit prep sessions with stakeholders

COE GDPR Compliance Service Portfolio

- Secure Product Lifecycle Consulting
- Regulatory Compliance Alignment (CRA, RED, NIS2)
- Vulnerability Management Program
- SSDLC Enablement & DevSecOps
- Threat Modeling & Secure Design Reviews
- SBOM Generation & Management
- Vulnerability Disclosure Program Setup
- Product Security Incident Response Readiness
- Governance Framework Implementation
- Real-Time Compliance Dashboards



Our Cybersecurity Arsenal: Beyond Protection- We Build Resilience



- Application Penetration Testing (Thick/Thin)
- Mobile Application Penetration Testing
- API Penetration Testing
- Network Penetration Testing
- Operational Technology Security Testing
- Cloud Penetration Testing
- AI & LLM Security Audit and Pen Testing
- Red Teaming & Social Engineering Services
- Product & Hardware Penetration Testing
- IoT Security
- Security Operations Center Services (24/7)
- Custom Security Services

Implementation Details

- Deployed compliance-ready templates across all firmware repositories
- Integrated secure coding practices into GitHub Actions workflows
- Delivered targeted training to 120+ R&D, QA, and supply chain staff
- Authored full documentation packs for CRA Technical Files
- Provided bi-weekly executive dashboards tracking remediation and risk posture

Results Achieved

- 100% alignment with EN-18031 Annexes A & B within 4 months
- 45% faster remediation of critical firmware vulnerabilities
- Implemented a VDP recognized by the EU CRA Compliance Council
- Product Security Maturity Level raised from 1.9 to 4.2

Client Testimonial

“COE Security’s structured approach and deep regulatory insight helped us move from reactive patching to proactive resilience. We are now confident about our CRA readiness and future audits.”

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Hiring!**



Industries We Protect with Cutting-Edge Security



- Financial Services
- Healthcare
- Retail
- E-commerce
- Government
- Cryptocurrency
- Blockchain Technology
- Automotive
- Transportation/Logistics
- Energy & Utilities
- Hospitality/Tourism
- Entertainment/Media
- Manufacturing
- Education
- Telecommunications
- HiTech & Information Technology

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COE Security LLC

COE Security is a leading cybersecurity services provider, offering comprehensive solutions to address the evolving threat landscape. We have a proven track record of helping organizations of all sizes mitigate risks, strengthen defenses, and recover from cyberattacks. Our team of experienced cybersecurity professionals possesses deep expertise in the latest technologies and best practices, enabling us to deliver tailored solutions that meet your unique security needs.

"Peace of mind in a world of cyber threats.
That's what we deliver."

Joseph Henderson

