

## CASE STUDY

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

Joseph Henderson



## CASESTUDY

# FORTIFYING CRITICAL INFRASTRUCTURE AGAINST EVOLVING THREAT

COE SECURITY LLC  
USA | BRAZIL | UAE | INDIA



# 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

**We're  
Hiring!**

## Client Profile

A leading provider of critical infrastructure services across utilities, energy, telecommunications, and transportation sectors

## Challenges Faced

As a provider of essential services, the client faced growing cybersecurity threats targeting critical infrastructure, including power grids, water systems, and communication networks. With increasing cyberattacks and the rise of sophisticated threats, the client needed a robust security strategy to protect critical systems from disruption, unauthorized access, and data breaches.

- **Protecting Critical Systems** Safeguarding power grids, water supply systems, and transportation networks from cyberattacks and operational disruptions
- **Securing Operational Technology (OT)** Protecting OT devices and systems from unauthorized access, ensuring the integrity of physical infrastructure
- **Preventing Supply Chain Attacks** Addressing vulnerabilities in the supply chain, where attackers could target third-party vendors or contractors to infiltrate systems
- **Meeting Regulatory and Compliance Standards** Ensuring adherence to industry regulations and cybersecurity frameworks, such as NIST, ISO 27001, and others

## Solution

The client partnered with COE Security to implement a comprehensive cybersecurity solution tailored to the unique needs of critical infrastructure, ensuring protection and resilience against cyber threats.



# 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

## Critical System Risk Assessment and Security Framework Development

- Conducted a detailed security audit to identify vulnerabilities in OT systems, SCADA networks, and other critical infrastructure components
- Developed a tailored cybersecurity framework based on industry best practices and regulatory requirements to strengthen defenses
- Implemented network segmentation and access control to isolate critical systems from potential attack vector

## Operational Technology and Network Protection

- Deployed advanced endpoint security solutions to protect OT devices from unauthorized access, malware, and ransomware attacks
- Enhanced monitoring and intrusion detection systems to detect and respond to anomalies in real-time
- Applied encryption and secure communication protocols for OT systems to safeguard data transmission

## Supply Chain Security and Vendor Risk Management

- Deployed continuous monitoring systems to detect unusual activities and potential vulnerabilities in AI workflows
- Established real-time incident response capabilities to address potential breaches or system failures promptly
- Integrated machine learning-based security tools to automatically detect and mitigate threats against AI systems

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# 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

## Compliance and Resilience Building

- Assisted the client in meeting regulatory standards for cybersecurity within critical infrastructure sectors, including NIST and ISO 27001
- Developed and tested incident response and recovery plans to ensure rapid recovery in case of a security breach or operational disruption
- Provided ongoing cybersecurity training to staff and stakeholders, ensuring awareness of security protocols and risk management

## Results

With COE Security's expert solutions, the client achieved:

- Enhanced System Security Strengthened OT systems, networks, and critical infrastructure against evolving cyber threats and attacks
- Improved Resilience and Continuity Ensured the uninterrupted operation of essential services by quickly detecting and mitigating cyber threats
- Robust Supply Chain Security Protected the infrastructure from risks posed by third-party vendors and contractors
- Regulatory Compliance Met stringent regulatory and industry standards for critical infrastructure cybersecurity

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# 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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## Client Testimonial

COE Security has been an essential partner in strengthening the security of our critical infrastructure. Their proactive approach to identifying vulnerabilities and their tailored solutions have given us the confidence to continue providing essential services without disruption.

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

*Joseph Henderson*

