

## CASE STUDY

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

Joseph Henderson



## CASESTUDY

# SECURING GOVERNMENT SYSTEMS AND CRITICAL INFRASTRUCTURE AGAINST CYBER THREATS

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 government agency responsible for national security, public services, and sensitive data management, including classified information and critical infrastructure

## Challenges Faced

As a government entity handling sensitive national security data and critical public infrastructure, the client was targeted by increasing cyber threats. These threats included data breaches, ransomware, and attacks on critical infrastructure systems. Additionally, the agency faced pressure to comply with government regulations and cybersecurity frameworks, ensuring both data protection and uninterrupted service delivery to the public.

- Protecting Sensitive Government Data Safeguarding classified and confidential information from unauthorized access, breaches, or leaks
- Securing Critical Infrastructure Preventing cyberattacks on essential public services like energy, water, and transportation networks
- Ensuring Compliance with Government Regulations Meeting the stringent cybersecurity requirements of frameworks like NIST, FISMA, and the Cybersecurity Maturity Model Certification (CMMC)
- Ensuring Service Continuity Maintaining operational continuity in the event of a cyberattack or other disruptive incident

## Solution

The government agency partnered with COE Security to implement a tailored cybersecurity solution that strengthened data protection, ensured the integrity of critical infrastructure, and met regulatory compliance standards.



# 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

## Risk Assessment and Threat Identification

- Conducted a comprehensive risk assessment to identify potential vulnerabilities across sensitive data systems and critical infrastructure
- Mapped existing security protocols against regulatory requirements to identify gaps and areas for improvement
- Developed a strategic security framework to address risks and strengthen overall cybersecurity posture

## Data Protection and Encryption

- Implemented end-to-end encryption for sensitive government data, ensuring protection during storage and transmission
- Deployed advanced data loss prevention (DLP) tools to monitor and protect classified information from unauthorized access
- Introduced secure access controls and multi-factor authentication (MFA) to restrict unauthorized users from accessing critical data

## Critical Infrastructure Security

- Secured critical public infrastructure systems (e.g., power grids, transportation networks) from cyberattacks and operational disruptions
- Implemented real-time monitoring and intrusion detection systems to identify and respond to potential threats targeting infrastructure
- Applied advanced firewalls and segmentation techniques to isolate critical infrastructure from non-essential networks and prevent lateral movement by attackers

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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 Incident Response

- Assisted the agency in aligning cybersecurity practices with NIST, FISMA, and other relevant frameworks
- Developed incident response protocols to ensure quick containment and recovery from potential security breaches or cyberattacks
- Conducted regular cybersecurity drills and provided training to key personnel on responding to security incidents and maintaining service continuity

## Results

With COE Security's expert solutions, the government agency achieved:

- Enhanced Data Protection Safeguarded classified and sensitive information, ensuring it remained protected from cyber threats
- Strengthened Infrastructure Security Secured critical systems and infrastructure, reducing the risk of operational disruptions
- Full Compliance Met stringent government regulations and cybersecurity standards, ensuring compliance and minimizing legal risk
- Improved Incident Response and Continuity Developed rapid response capabilities, maintaining service continuity and resilience during threats

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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's expertise has been invaluable in securing our sensitive data and critical infrastructure. Their comprehensive approach to cybersecurity has allowed us to better protect national assets and maintain the trust of the public, all while ensuring compliance with strict government regulations.

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

*Joseph Henderson*

