ENCRYPTION CONSULTING

Post-Quantum Cryptography Services

Prepare for the quantum era, assess risks, and implement proactive measures for a quantum-safe environment!

Introduction to PQC Service

Our Post-Quantum Cryptographic Advisory Services assist organizations in navigating the challenges posed by quantum computers in cybersecurity. We provide insights into potential quantum risks, guide the transition to quantum cyber-readiness, and align with Post-Quantum Cryptographic (PQC) standards recommended by leading agencies such as CISA, NSA, and NIST. Through strategic planning and proactive cryptographic discovery, we help organizations assess and modernize their cryptographic infrastructure, ensuring they are well-prepared for the quantum era.

Key Benefits of Our Service

- **Quantum Threat Assessment:** Secure your data by identifying and mitigating quantum risks, intercepting encrypted transmissions, and preparing against potential attacks.

- **Visibility and Compliance Enhancement:** Ensure compliance with industry standards, enhance visibility and score cryptographic algorithms for a robust cybersecurity posture.

- **Understanding Challenges and Providing Transition Support:** Provide assistance in acknowledging and overcoming challenges during the transition to post-quantum cryptographic algorithms, ensuring a smooth and secure migration.

Our Services:

Post-Quantum Cryptographic Risk Evaluation: The service consists of identifying vulnerabilities in encryption protocols and key management, analyzing risks within the cryptographic ecosystem, and assessing the effectiveness of governance protocols. Furthermore, the service involves the classification of data and crypto-assets based on sensitivity and criticality. Customized security measures are implemented based on this classification, and the entire process is integrated into a holistic risk management strategy.

Our Quantum Readiness Roadmap & Strategy: The service guides organizations through a quantum-ready transition. The offering includes the development of a tailored quantum readiness strategy aligned with organizational goals, the designing of a flexible operating model to address emerging quantum threats, and the creation of a detailed roadmap with phased milestones for a secure transition. We implement industry-leading best practices for robust cryptographic security and provide expert consultations and specialized tools to enhance cryptographic governance.

- **Future-Proofing Your Digital Assets:** Secure sensitive information with our post-quantum cryptographic solution, enhancing security, compliance with NIST standards, and reinforcing trust against evolving quantum threats.

Deliverables

Assessment & Gap Analysis Report: By Reviewing existing policy and process documents, requiring matrix, data security controls, regulatory requirements, and industry standards. We provide recommendations for the identified gaps.

Use Cases & Prioritize PQC Scenarios: Provide a starting point for identifying additional PQC use cases that can be implemented within the organization's network to protect sensitive information further.

Strategy & Implementation Planning: Define and develop a strategy and implementation plan for post-quantum cryptography processes and technology changes.

Vendor Evaluation & POC (Proof of Concept): Provide an overview of solution capabilities and vendor/product mapping to use cases. Document the test/ evaluation scenarios.

Our Post Quantum Cryptographic Solution Implementation: The service ensures a smooth transition to quantum-resistant cryptography. It encompasses Proof of Concept Development, thorough vulnerability assessments, and compliance with NIST standards. The service includes data scanning and inventorying to identify cryptographic elements and assets and meticulous planning for a disruption-free transition. Additionally, the implementation integrates a flexible model for adapting to emerging cryptographic threats and ongoing monitoring and adjustment, ensuring long-term resilience.

Why Choose Encryption Consulting LLC?

Encryption Consulting is a leading cyber security firm with a spread of expertise across domains in post-quantum cryptography. Encryption Consulting recruits the industry's best resources with ample experience in cybersecurity and the capability to perform comprehensive tasks, especially in data protection domains. Cryptography and Key management are core service areas.

See it in action

Encryption Consulting LLC is a customer-focused cyber security consulting firm providing an array of services and solutions in all aspects of data protection.

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