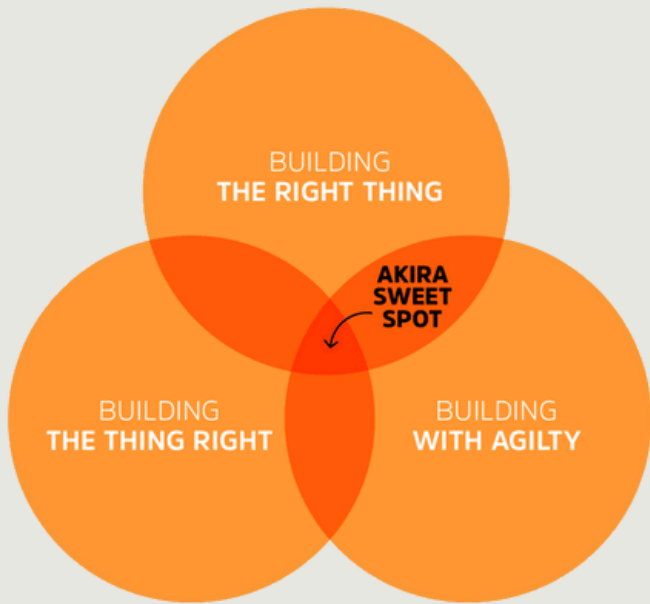


PQC Implementation Services

Quantum Computing poses a significant threat to traditional encryption algorithms, as it can crack methods like RSA and ECC. Because "Store Now, Decrypt Later" attacks are occurring even today, the Federal government has passed comprehensive guidance on upgrading cryptography. Federal Agencies must proactively prepare for the post-quantum era. Artificial intelligence, particularly when combined with quantum computing, presents additional challenges. AI optimizes attacks on cryptographic systems, necessitating a proactive approach to cybersecurity, emphasizing cryptographic agility and regular updates to cryptographic infrastructure. Akira's Post-Quantum Cryptography (PQC) Implementation Services offer a holistic solution for federal organizations seeking to adopt quantum-resistant cryptographic practices. Our comprehensive three-phase approach prioritizes cryptographic agility, seamlessly integrating expert consultation with automated tools for effective inventory management, benchmarking, and remediation implementation. We align with federal directives like NSM-10 and OMB Memo 23-02, emphasizing Zero Trust Architecture and regulatory compliance. Our services incorporate elements crucial for regulatory compliance, such as multi-factor authentication, regular encryption audits, continuous monitoring of security posture, and adherence to Zero Trust principles.

ABOUT AKIRA

We design and deliver innovative data, cloud & cyber solutions that help government agencies solve complex challenges, modernize mission-critical systems, and successfully tackle digital transformation. By modernizing essential systems and processes, we enable agencies to deliver enhanced services to their constituents. In collaboration with our clients, we develop innovative solutions that are user-friendly, maintainable, and scalable, ensuring enduring value and operational efficiency.



OUR CLIENTS



CONTRACT VEHICLES

- US Army ITES-3S : W52P1J-18-D-A115
- CMS SPARC: HHSM-500-2017-000061
- Seaport-NXG : N0017819D7083
- FAA eFAST: DTFAWA13A-00129
- GSA MAS: GS-35F-515BA
- GSA 8a STARS III (JV): 47QTCB21D0428
- OASIS+ (Contract Award)

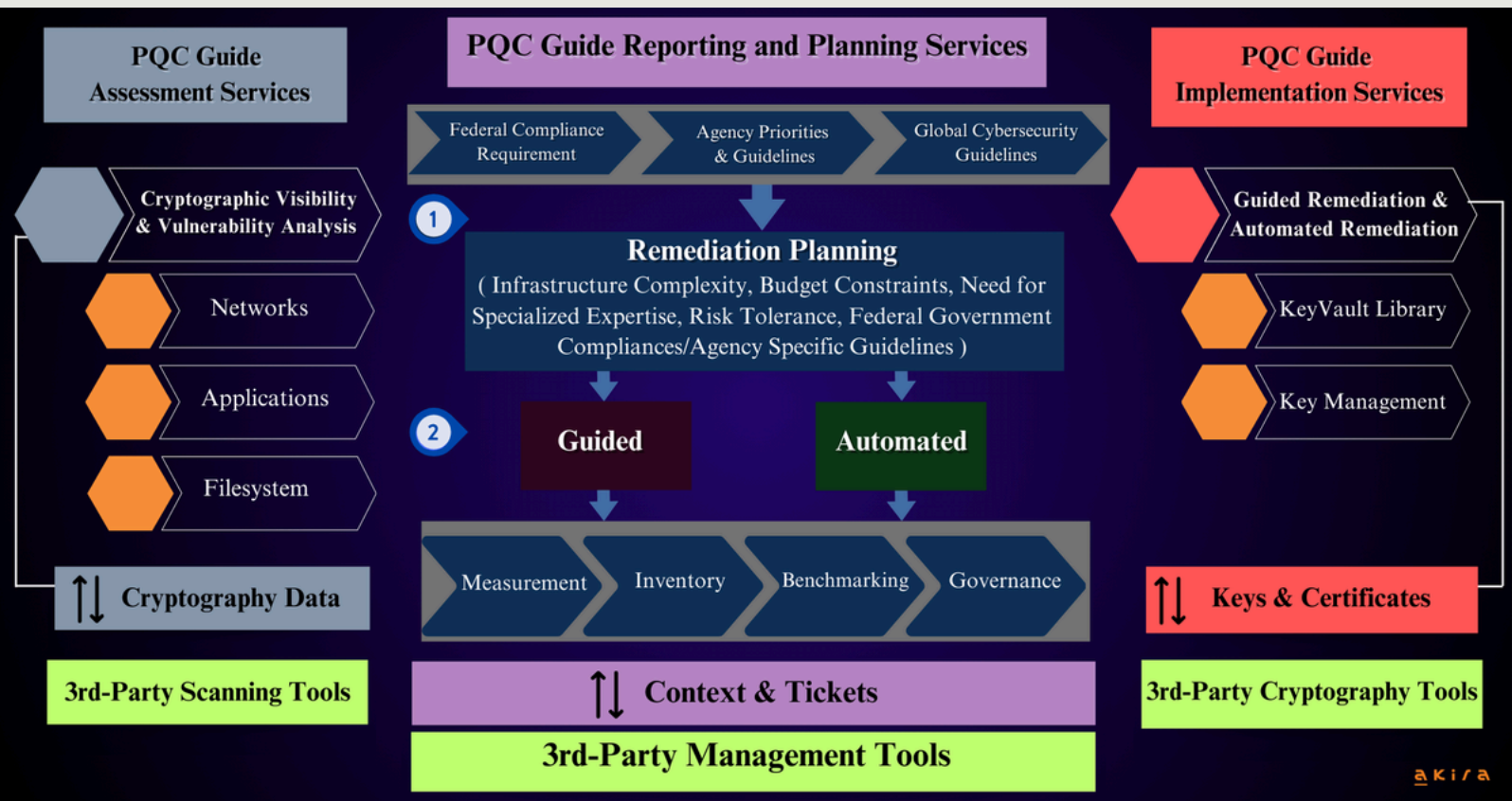
OUR WEBSITE



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PQC Guide Assessment Services

Akira's assessment involves initial consultation, review of applicable Federal and agency requirements, network and system discovery, vulnerability and encryption audits, compliance checks, analysis, and reporting. Aligning with frameworks like NIST 800-171, MITRE ATT&CK, and DOD Zero Trust, we scan, consolidate, and catalog cryptographic assets to: 1) Discover and inventory all cryptographic assets across various platforms and systems, 2) Identify the types of encryptions in use and their configurations, and 3) Detect outdated or vulnerable cryptographic implementations. Our service also includes a detailed analysis of the identified vulnerabilities and provides tailored remediation strategies, ensuring compliance with relevant regulations and standards.

PQC Guide Assessment Services Offering

- Cryptographic Visibility
- Vulnerability Analysis

PQC Guide Reporting & Planning Services

Akira's inventory process ensures continuous visibility into an organization's cryptographic landscape, enabling quick identification of vulnerabilities or outdated encryption methods. We specialize in benchmarking post-quantum cryptographic algorithms on embedded systems, testing schemes like Dilithium and Falcon on ARM microcontrollers and analyzing performance, memory usage, energy consumption, and resistance to side-channel attacks. Our tailored remediation plans prioritize vulnerabilities based on severity, potential impact, and exploitability, including: 1) Immediate actions to address critical vulnerabilities, 2) Short-term strategies for enhancing key management and adding encryption layers, and 3) Long-term planning for comprehensive cryptographic policy reviews and updates.

PQC Guide Reporting & Planning Services offering

- Cryptographic Inventory
- Benchmarking
- Cryptographic Remediation Planning

PQC Guide Implementation Services Offering

Akira offers both guided and automated approaches to implementing remediation plans. Guided Remediation provides expert audits, vulnerability analysis, and custom strategies, while Automated Remediation ensures continuous monitoring, real-time detection, and automated security implementation. The choice between guided and automated approaches depends on factors such as the organization's size, complexity, in-house expertise, and specific security requirements.

PQC Guide Implementation Services Offering

- Guided Remediation
- Automated Remediation

OUR WEBSITE

