



Unified Post-Quantum Migration and Risk Management

QubitSafe is an end-to-end Post-Quantum Cryptography (PQC) migration platform. QubitSafe enables organizations to Discover, Assess, Implement, and Monitor their transition to quantum-resistant cryptography. Built on the proven AccessMatrix security foundation, the platform provides a structured, enterprise-ready approach to managing cryptographic posture and risk across the entire PQC lifecycle.

With “Harvest Now, Decrypt Later” (HNDL) attacks already targeting sensitive data, quantum risk is no longer theoretical. Following the finalization of NIST PQC standards in August 2024, regulators across APAC are increasingly requiring organizations to assess quantum exposure and demonstrate readiness.

QubitSafe supports NIST-approved algorithms including ML-KEM, ML-DSA, and SLH-DSA, and integrates with Open Quantum Safe (liboqs) to enable hybrid cryptographic deployments. Through automated discovery, risk-based assessment, controlled implementation, and continuous monitoring, organizations gain full visibility and control—allowing them to transition to PQC without disrupting existing operations.

Core Modules



Discovery Module

Identify cryptographic assets across environments with comprehensive discovery capabilities

- Git repository and source code scanning
- Certificate and key discovery
- CyloneDX 1.6 Crypto Bill of Materials (CBOM) export



Assessment Module

Quantify quantum risk and determine migration priorities through intelligent analysis

- Automated cryptographic risk scoring
- Mosca timeline analysis for quantum exposure forecasting
- Migration prioritization based on business impact
- Regulatory framework mapping across applicable standards



Implementation Module

Enable controlled deployment of post-quantum cryptography

- PQC proxy service for seamless integration
- Validation test harness for functional assurance
- Hybrid cryptographic algorithm support

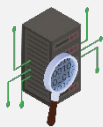


Monitoring Module

Maintain continuous visibility and governance across cryptographic posture

- Executive-level dashboards and reporting
- Policy violation detection and tracking

Key Capabilities & Benefits



End-to-End Cryptographic Discovery

Automated scanning across source code, binaries, certificates, and keys with CycloneDX CBOM export, delivering rapid visibility and eliminating cryptographic blind spots.



Seamless PQC Implementation

Hybrid-ready PQC proxy, validation testing, and performance benchmarking, allowing quantum-safe adoption with minimal application changes.



Standards-Based Cryptography

Supports NIST-approved post-quantum cryptographic algorithms including ML-KEM (FIPS 203), ML-DSA (FIPS 204), and SLH-DSA (FIPS 205), ensuring long-term cryptographic resilience and global standards alignment.



Intelligent Quantum Risk Assessment

AI-driven risk scoring, Mosca timeline analysis, and regulatory mapping, enabling risk-based migration prioritization and informed decision-making.



Continuous Monitoring & Compliance

Real-time dashboards, policy violation tracking, audit-ready reports, and alerts, maintaining continuous compliance, governance, and executive visibility.



APAC Regulatory Expertise

Pre-built compliance frameworks tailored to key regional regulators including MAS/CSA (Singapore), HKMA (Hong Kong), BOT (Thailand), and BNM (Malaysia), accelerating regulatory readiness across the region.

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