

PQC-RA

Post-Quantum Cryptography Risk Assessment

An Advanced Cryptographic Assurance and Planning Solution

Assess Current
Cryptographic Landscape

Quantify Quantum
Risk Exposure

Design Strategic
Migration Path to PQC

Crypto Agility

Compliance

Risk Assessment

CBOM Integration

Impact

Plan

PQC Migration



Understanding PQC-RA

Learn how PQC-Risk Assessment tool identifies quantum encryption risks and aids planning in your migration to post-quantum cryptography

Steps in PQC-RA

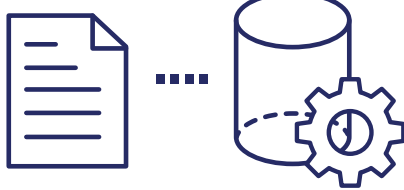


Assess

Prioritise

Transition

CBOM



Cryptographic data is extracted, normalised and securely stored for analysis, setting the foundation for accurate risk scoring



Our engine identifies vulnerable or legacy algorithms that may be compromised by quantum computing



Each asset is assigned a Quantum Risk Score – from 0-4 based on encryption type, key length, business impact and future threat projections



You will receive a prioritisation list aligning your organisation with NIST, ISO and NCSC regulatory Standards



A detailed migration roadmap with prioritised steps guides your transition to post-quantum cryptography



A visual Dashboard shows readiness helping stakeholders understand what needs attention now

PQC Transition: Deprecation Schedule (NIST)

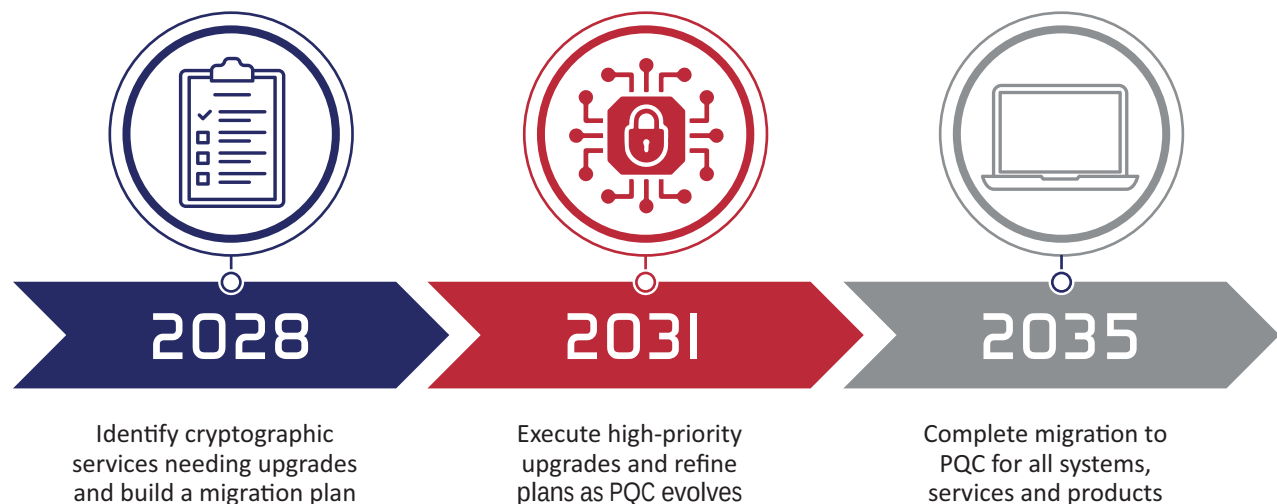
Organisations should begin phasing out these algorithms and transitioning to PQC:

Algorithm(s)	Status	Recommended Action
SHA-1, SHA-224, SHA3-224, SHA-512/224	Deprecated through 2030 Disallowed after 2030	Use SHA-256 or stronger (e.g., SHA-384, SHA-3).
RSA, ECDSA, EdDSA, DH, ECDH	Deprecated after 2030	Begin migrating to post-quantum cryptographic algorithms.
Algorithms < 128-bit security (incl. 112-bit)	Deprecated after 2030	Upgrade to algorithms with ≥ 128 -bit security strength.

NCSC Timeline



National Cyber
Security Centre



All traditional cryptographic algorithms that lack quantum resistance must be fully replaced with **NIST-approved PQC algorithms**.

Transition now to cutting-edge solutions such as ML-KEM, ML-DSA, and SLH-DSA.

Map your current cryptographic landscape



Contact Us Now!

Discover how Acubed IT's PQC-RA can guide you to a quantum-safe future.

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