

IBM Consulting & Thales

Solution Brief

IBM Consulting & Thales: Building Tomorrow's Quantum -Resilient Security Today

IBM Consulting and Thales together deliver a comprehensive cryptographic modernization capability that helps organizations regain control of their most sensitive data across hybrid and multi-cloud environments.



Challenges :

Enterprise Key Management Modernization



The challenge

Encryption keys are often owned by different teams using inconsistent processes and they lack visibility into what keys they have, where they reside, and how they are being used, creating operational risk

Crypto Agility for Applications



The challenge

During application updates or cloud migration, hidden algorithms, keys, and certificates emerge unexpectedly, delaying releases and increasing operational risk

Quantum -Safe for Payments



The challenge

The cryptography that underpins payment flows is difficult to replace without disrupting live rails, and compliance teams often act only after mandates arrive

From key sprawl to post -quantum payment protection — causes of barriers to progress.



IBM Consulting and Thales Partnership:

IBM Consulting

- Quantum-safe strategy and assessments
- Global delivery and industry expertise
- Enterprise integration and modernization
- Compliance with NIST PQC standards
- Proven transformation methodologies
- Quantum Safe Migration Orchestrator (QSMO) highlights your most critical payment flows and trust boundaries..

Thales

- Sovereign and data residency capabilities
- Cloud and multi-cloud Key Management Service (KMS) solutions
- Industry-leading Hardware Security Modules (HSM) and quantum-safe hardware roots of trust, for key creation, storage and management
- Strong PQC roadmap and hybrid crypto support
- Proven integration in regulated industries

The Joint Advantage

- Structured modernization at scale
- Proven assets & accelerators
- Trusted cryptographic infrastructure
- Migrations built for Day-2 Operations
- Automation that shrinks future effort per change



With IBM Consulting and Thales, you will:

Centralize Key Inventory

Get a Single Control Plane for Keys and HSMs to cut costs and complexity

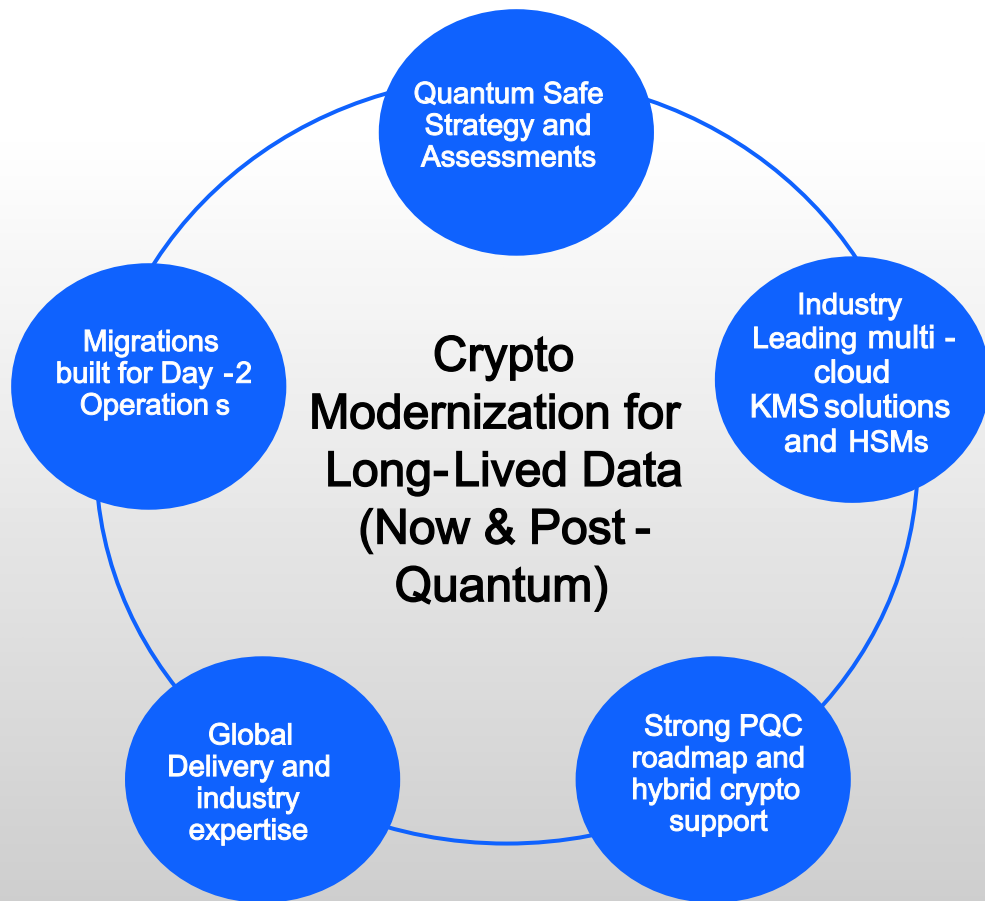
Algorithm Agility

Algorithm agility without refactoring crypto aware pipelines .

Quantum –Safe Payments

A Quantum-Safe foundation for next-gen finance (digital assets, wallets, infrastructure)

IBM + Thales: Operational Crypto Modernization (End-to-End)



The Power of Two: IBM Consulting + Thales

Sustainable transformation, not a tool deployment.

We combine Thales' enterprise-grade encryption platform with IBM Consulting's structured modernization and governance model

Estimates and execution stay aligned with production reality

Our approach embeds posture ownership, enforcement boundaries, downgrade control, and trust-chain authority into the program model—not as afterthoughts

Predictable cost, sequencing, and measurable progress

AI-aided, unit-driven execution to drive modernization complexity down

Long-term resilience without disruptive re-platforming

Designed for algorithm evolution and controlled migration—including post-quantum capabilities when required.

From Discussion to Delivery

