Solution Brief

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Thales Post-Quantum Cryptography Discovery

Fast track your PQC readiness journey

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Preparing for the Post-Quantum Era

For decades, organizations have relied on cryptographic algorithms such as RSA and ECC to protect sensitive data, digital identities and business transactions. **Quantum computers are expected to break traditional public-key algorithms**, fundamentally changing today's security assumptions and driving the need to prepare for a quantum-safe future.

Transitioning to post-quantum cryptography is a lengthy and complex process. Cryptography is embedded across applications, databases, certificates, cloud services and infrastructure, making early visibility, planning and prioritization essential.

Cryptographic Visibility

Cryptography is embedded across applications, databases, certificates, cloud services and infrastructure. Many organizations lack visibility into where vulnerable cryptography exists.

Evidence-based planning

Organizations need evidence-based insights to understand which assets, systems and data require attention first.

Skills & Capacity

Security teams must prepare for quantum risk while managing existing operations, transformation and compliance priorities.

A Flexible, Customer-Centric Approach

Every organization is at a different stage of its PQC journey. The appropriate starting point and scope depend on business priorities, risk profile, regulatory obligations, existing maturity and cryptographic complexity.

- Customer may begin with a defined set of crown-jewel systems and expand over time.
- Discovery may use an agreed discovery platform, consultant-led assessment or a combination of both, depending on the customer's scope, environment and objectives.



The Thales PQC Services Journey

A phased approach to help organizations understand cryptographic exposure, assess **quantum-related** risks and prepare for **quantum-resistant operations**. Each phase de-risks the next and can be tailored to your priorities and needs.

Plan

Align priorities, scope and approach

Discover & Assess

Build the inventory and assess the risk

Remediate

Pilot the prioritized changes

Scale

Scale proven changes across the agreed scope

Plan first | **Discover with evidence** | **Remediate confidently** | **Scale effectively**

The scope and depth of each step will vary based on your crypto visibility maturity, priorities and business needs.

Key Customer Outcomes

Improved visibility
into cryptographic assets and dependencies.

Better understanding
of quantum-related risks and business impact.

Evidence-based recommendations
for prioritization planning.

Executive-level insights
to support strategic decision making.

A practical roadmap
toward quantumresistant operations.

A foundation for long-term crypto agility
and continuous improvement

Engagement Flexibility
Customers may begin with a defined set of crown-jewel systems and expand over time based on priorities, risk and available evidence. Discovery may use an agreed discovery platform, consultant-led assessment, or a combination of both, depending on the customer's environment and objectives.

What We Deliver

- **Discovery Findings Report**
  Findings from agreed discovery scope and approach.
- **Cryptographic Bill of Materials for the agreed scope**
  Cryptographic inventory where available evidence supports its creation.
- **PQC Risk Assessment Summary**
  Risk rating based on cryptographic exposure, data sensitivity and business criticality.
- **Risk Heatmap**
  Prioritized view of risks to focus action where it matters most.
- **Executive briefing**
  Stakeholder-ready summary of risk posture, priorities and recommended next steps.
- **Prioritized Recommendations**
  Practical actions and quick-wins to the agreed scope.
- **Migration Roadmap**
  A phased path toward quantum-resistant operations and long-term crypto agility.



Preparing for a Quantum-Safe Future

Preparing for post-quantum cryptography is no longer simply a future consideration.

Organizations need to build visibility into long-lived data, vulnerable cryptography and operational dependencies today. Thales Professional services helps establish the foundations needed to prioritize action, avoid rushed decisions, and confidently plan the journey toward quantum-resistant operations.

About Thales

Thales is a global leader in cybersecurity, helping the most trusted companies and organizations around the world protect critical applications, sensitive data, and identities anywhere at scale. Through our innovative services and integrated platforms, Thales helps customers achieve better visibility of risks, defend against cyber threats, close compliance gaps, and deliver trusted digital experiences for billions of consumers every day.

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