Data Security | Cryptography Services

Protecting data across cloud, AI and hybrid environments, today and for the quantum future

Enterprises face one of their greatest tests yet: keeping sensitive data secure in an unforgiving threat landscape. Regulatory mandates are tightening. At the same time, threat actors have grown more sophisticated.

The projected global cost of cybercrime is expected to reach $12 trillion[1] in 2025. The rapid pace of multicloud adoption and AI workloads has introduced new risks, with inconsistent encryption policies making your data vulnerable to exposure. Protecting that data will only become more challenging against future quantum threats unless you continuously enhance your data protection strategy — with cryptography at its core.

Build crypto-agility through strong foundations

We know protecting data at rest, in transit and in use is critical. But it's a struggle to make it a reality — and you're not alone. Almost two-thirds of organizations identify encryption, key management and governance as their biggest challenges, with 67%[2] admitting they can't enforce consistent encryption across multicloud environments. More than half[3] also cite the cost of compliance as a major barrier.

But there is a solution. NTT DATA helps you overcome these hurdles through a unified cryptographic platform that simplifies control, strengthens compliance and ensures quantum readiness across your entire environment.

A full-stack cryptography platform

Unlike point solutions, which only address part of the challenge, NTT DATA's Data Cryptography Platform delivers integrated cryptography services. It is built to strengthen compliance, ensure sovereignty and enable you to secure innovation across AI, multicloud, and hybrid environments today while preparing for the quantum future.

Central to this is our **Cryptography as a Service** offering. It provides enterprise-grade encryption, key management and crypto-agility without the complexity of managing it yourself. Delivered as a managed service, it offers centralized control and consistent security, while enabling quick adaptation to emerging risks — from evolving regulations to post-quantum threats.

[1] https://www.forrester.com/blogs/predictions-2025-cybersecurity-risk-privacy/
[2] Encryption Consulting. 2025 Encryption Trends Report
[3] Encryption Consulting. 2025 Encryption Trends Report

In addition, our cryptography services include:

- **Runtime Encryption®** — Protects sensitive information while it is being processed, securing high-value workloads like AI models, healthcare transactions and financial services.

- **Hardware security modules (HSM) as a service** — Enterprise-grade key protection without the need for on-premises appliances. This enables simplified operations and lower total cost.

- **Comprehensive key lifecycle management** — Unified, policy-driven management across multicloud, hybrid and on-premises environments. It supports "bring your own key" and "hold your own key" models for compliance and sovereignty.

- **Tokenization and format-preserving encryption** — Protects personal and regulated data while keeping it usable for analytics and business processes.

- **Code signing and software integrity** — Ensures the authenticity of applications and updates, mitigating supply chain and firmware tampering risks.

- **Post-quantum readiness** — We offer tools for greater crypto-agility, ensuring you can identify vulnerable algorithms, migrate to quantum-safe standards and future-proof long-term data protection.

Together, these services form a cohesive cryptographic foundation.

They ensure you achieve compliance today for your organization and prepare you for the security landscape of tomorrow. One where secure AI, multicloud complexity and quantum computing will define competitive advantage.

Tangible business outcomes

When cryptography is done right, the benefits reach across the business. Beyond meeting regulatory requirements, you can operate with confidence and agility in a digital-first world. For example, with a full-stack cryptographic foundation, testing and development is accelerated without exposing sensitive data; reducing processes that once took days to just hours. You can also refresh large datasets faster and more securely, keeping innovation cycles moving without compromising compliance.

Stronger encryption and centralized key management also reduce audit findings and regulatory gaps. This ensures your security controls align with strict standards, while minimizing the risk of fines or reputational damage. By eliminating complexity and automating policy enforcement, you reduce outages and operational bottlenecks while keeping critical applications available and business operations running smoothly.

As a result, customers and partners gain trust in how sensitive information is handled.

That trust translates directly into stronger brand reputation, competitive differentiation and the freedom to innovate securely with emerging technologies like AI and post-quantum cryptography.

How we work with you

Every engagement is guided by our proven delivery framework and principles, supported by successful deployments worldwide. We offer flexible commercial models and tiered service levels that adapt to your needs, ensuring predictable outcomes and resilience. Our partnerships with industry leaders provide seamless integration, enterprise-grade SLAs and continuous innovation.

Why NTT DATA

We are a trusted cybersecurity partner to leading enterprises worldwide. We align cryptographic strategy with business value, delivering outcomes through robust technologies, clear governance and deep expertise. With a focus on both today's challenges and tomorrow's threats, we help you secure growth with confidence.

Let's start the conversation and strengthen the foundation of your quantum ready digital business.

Partner with NTT DATA to assess your cryptographic posture, close compliance gaps and build a future-ready data security strategy. Contact us.

Visit nttdata.com to learn more.

NTT DATA is a global innovator of digital business and technology services, helping clients innovate, optimize and transform for success. As a Global Top Employer, we have experts in more than 50 countries and a robust partner ecosystem. NTT DATA is part of NTT Group.

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