

DXC Key and Certificate Services

Quantum-ready data integrity and confidentiality



Secure your communications, establish trust and streamline regulatory compliance with DXC Key and Certificate Services. Consolidate onto a crypto-agile platform that delivers automation and quantum readiness.

Cryptographic agility

Cryptographic agility, or crypto-agility, enables your organization to quickly and seamlessly adapt your cryptographic mechanisms in response to new threats, vulnerabilities or changes in standards. You can change cryptographic algorithms, update key lengths, modify protocols, switch cryptographic libraries and rotate keys efficiently. Visibility of cryptographic assets with automated management of keys and certificates allows you to address the following challenges:

- **Quantum readiness.** Quantum computers will revolutionize drug discovery, material science, forecasting and optimization. They will also break the public key cryptography that protects your data and communications, allowing criminals, competitors and governments to intercept and read your confidential data or impersonate anybody or anything. Being quantum ready requires cryptographic modernization to keep your data security ahead of the advancing capabilities of quantum computers.
- **Certificate expiration.** Today's TLS certificates that secure your web servers expire after 398 days. This will be reduced to 200 days in 2026, 100 days in 2027 and 47 in 2029. Shorter certificate validity improves your security but raises operational challenges that require automating certificate management.
- **Cloud-first strategy.** Control your own encryption keys (BYOK/HYOK) to retain data sovereignty for data residency laws. Protect the integrity and confidentiality of your data while maintaining the resilient and elastic computing capabilities of public cloud.
- **Identity and access management.** Certificates allow people and machines to authenticate and authorize as they connect to each other in our increasingly distributed and interconnected world.
- **Zero trust security.** Stop trusting and start verifying everyone and everything, everywhere, with key and certificate services that operate across all endpoints that hold and interact with your data.

Key benefits

- Centralized management of keys and certificates to establish digital trust
- Digital sovereignty to meet the challenges of an unstable world
- Ready for industrial IoT and vehicle-to-infrastructure connectivity
- Accelerated cloud migration and streamlined regulatory compliance
- **Secure IoT.** Inject certificates at manufacture into connected devices and manage them throughout their operational lifetimes in smart homes, energy grids, transportation systems and factories.
- **Regulatory compliance.** Privacy and data protection laws around the world specify encryption as a suitable technical mitigation for compliance.



DXC Key and Certificate Services in action

Our modern world relies on cryptography for trusted digital interaction and transactions.

- **Secure communication.** Share your data across the internet without it being tampered with or viewed by third parties.
- **Data integrity and confidentiality.** No matter where your encrypted data is stored, nobody can read it without your cryptographic keys. A digitally signed hash of your data alerts you when it has been altered.
- **Authentication.** A sender signs their document with their private key and a receiver can verify who sent the document by checking it with the sender's public key.
- **Nonrepudiation.** Legally binding communications and contracts signed digitally cannot later be denied or refuted by the sender.

DXC Key and Certificate Services features

DXC Technology's end-to-end services range from certificate policy advisory, design and implementation to managed services for your keys and certificates. We also provide discovery tools to locate your cryptographic assets and implement best practices for crypto-

agility. Our comprehensive suite of services helps your business prepare for the quantum era.

- Issue certificates for people, hardware devices and IT services.
- Consolidate multiple internal and external certificate authorities.
- Manage cloud encryption keys on a single platform for multiple cloud environments.
- Provide scalable service delivery and management for both on-premises and SaaS.
- Support Amazon Web Services, Google Cloud and Microsoft Azure encryption.
- Secure containers for DevSecOps in the cloud and on premises.

DXC has over 30 years of experience with modernizing cryptography solutions, as well as established relationships with strategic suppliers of quantum-ready technology, including AWS, CyberArk, DigiCert, Google, Microsoft and Thales.

Why DXC?

- **Trusted relationships.** We're committed to delivering mission-critical cryptographic services for customers in banking, government, healthcare, energy and manufacturing.
- **Administrative expertise.** We help you consolidate management of your cryptographic keys and certificates,

DXC Key and Certificate Services capabilities

Organizations in all industries trust DXC to operate their mission-critical cryptography services at scale around the world. Our services include:

- Crypto-agility advisory
- Quantum readiness
- Certificate discovery
- Public key infrastructure management
- Certificate life-cycle management
- Encryption key management
- Hardware security module management
- Operational performance tracking
- Compliance report generation
- 9-to-5 and 24x7 operational support
- Risk-based prioritization
- Global delivery centers
- Local secure delivery

ensuring crypto-agility for quantum-safe encryption and addressing the challenges of reduced certificate validity periods in the coming years.

Start planning now for crypto-agility and a post-quantum future.

Learn more at
dxc.com/key-and-certificate-services

Get the insights that matter.
dxc.com/optin



About DXC Technology

DXC Technology (NYSE: DXC) helps global companies run their mission-critical systems and operations while modernizing IT, optimizing data architectures, and ensuring security and scalability across public, private and hybrid clouds. The world's largest companies and public sector organizations trust DXC to deploy services to drive new levels of performance, competitiveness, and customer experience across their IT estates. Learn more about how we deliver excellence for our customers and colleagues at [DXC.com](https://dxc.com).