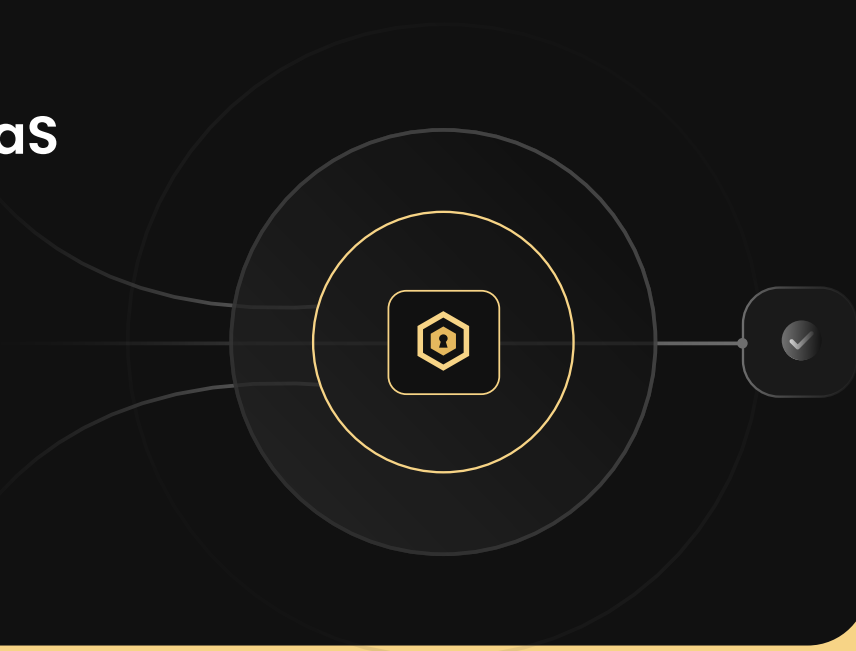


Enterprise-Grade PKIaaS With PQC Capabilities

Complex deployments, security gaps, and operational burden should not slow you down. We deliver a fully managed, scalable, and highly secure PKI, built for post-quantum, private client authentication, and hardware device identity, with seamless management, compliance, and integration.



Introduction

Securing your digital ecosystem takes more than certificates. It demands a future-ready PKI that operates seamlessly across cloud, hybrid, and on-premises environments, and now extends trust down to devices and silicon. Traditional PKI carries high maintenance costs, compliance challenges, and operational risk. With Encryption Consulting's PKIaaS, your organization gains a secure, scalable, fully managed PKI that strengthens security, ensures compliance, issues private clientAuth and hardware device identity certificates, and provides full hybrid and post-quantum support, all while ownership of the CA and your keys stays with you.

Why Choose PKI-as-a-Service?

Our PKIaaS eliminates operational complexity, accelerates modernization, and strengthens compliance through a fully managed, scalable solution you own.

Overcome Resource Constraints: Avoid in-house PKI complexity with a fully managed, highly available service that scales without added headcount, including built-in expertise for PQC, SPDM, and DICE device identity.

Enable Seamless Modernization: Transition from legacy systems to cloud native platforms and microservices, extend trust to devices and silicon, and move client authentication to a private PKI as clientAuth leaves public TLS, all without manual effort.

Ensure Security & Compliance: Maintain strong security and regulatory alignment through preconfigured encryption controls, automated compliance updates, and rapid hybrid and composite certificate issuance.

Benefits

- Zero-touch operations. A zero-touch ecosystem where your team never has to operate PKI components, and every certificate request is tied to a verified identity.
- Identity-first issuance. Certificates are issued only to authenticated, authorized users, devices, and workloads, with all issuance following your security standards and industry best practices.
- Hardware-protected keys. Critical CA keys are protected in FIPS 140-3 Level 3 certified cloud HSMS, with multi-factor authentication for Root CA access and strict access policies.
- Automated and PQC-ready. Self-service and automated issuance, renewal, and revocation, supporting classical, hybrid, and post-quantum (ML-DSA) algorithms for future readiness.
- Device and silicon identity. Hardware-rooted device identity for SPDM and DICE use cases, issued at manufacturing scale and verifiable at runtime.
- Fully managed compliance. Offloaded management with tailored CA hierarchies for any environment, continuous compliance (SOC 2 Type II, NIST, PCI DSS), and 24/7 monitoring.

The Encryption Consulting Difference

Managing PKI in-house presents security risks, operational bottlenecks, and compliance challenges. Our PKIaaS removes these pain points:

Expert-Led Strategy and Implementation: Our specialists design and manage PKI environments built for resilience, security, and scale, with native PQC capability to issue ML-DSA and composite certificates.

Integrated PKIaaS Gateway: A built-in PKIaaS enrollment gateway bridges your PKI with Microsoft Intune, ADCS, and MDM platforms, enabling secure certificate auto-enrollment for users and devices without manual effort.

End-to-End Compliance and Risk Mitigation: Simplify compliance management and ensure audit readiness with leading security controls for hybrid cryptography and a reviewed CP/CPS.

Rapid Deployment and Minimal Downtime: Get up and running in days, not months, with a seamless implementation tailored to your business needs.

Trusted by Leading Enterprises: Financial institutions, healthcare providers, and technology leaders rely on our PKIaaS for secure digital identity management.

Integrate PKIaaS Into Your Enterprise

Certificate Authorities:	Microsoft Active Directory Certificate Services (ADCS).
Extensibility:	CA Gateways, REST API, ACME, EST, SCEP, WSTEP, Agents, Orchestrations, Active Directory, Microsoft Intune.
HSM:	Thales, Entrust.
Email:	Gmail, Outlook, S/MIME Email

Key Features

- **Securing CA infrastructure:** Protects CA keys with FIPS 140-3 Level 3 certified cloud HSMs and strict access policies, including multi-factor authentication for Root CA access, and supports hybrid and composite CAs.
- **Private PKI Tenant Environment:** Issues clientAuth and mutual TLS certificates for your internal trust, as the clientAuth ECU leaves public TLS, keeping server and client roles in separate profiles you control.
- **Device and silicon identity (SPDM and DICE):** Issues DICE and IEEE 802.1AR-compliant IDevID and LDevID certificates and supplies the X.509 chains SPDM-enabled components present for attestation, with validity handling for hardware that cannot be reprovisioned in the field.
- **Seamless & Efficient PKI Management:** Simplifies deployment with custom CAs created in minutes, automated certificate lifecycle management, and a centralized web console for full visibility and control, including ML-DSA signatures.
- **Scalable PKI:** Supports WSTEP, ACME, SCEP, EST, and REST API integrations with auto-enrollment, seamless MDM integrations like Microsoft Intune, and flexible deployment model designed for high availability with post-quantum support.
- **Continuous Monitoring & Security:** 24/7/365 expert-led PKI operations, including CA and CRL renewals, patch management, firewall maintenance, and rapid incident response.
- **Robust Security & Compliance:** Meets the highest standards with PQC support, SOC 2 Type II certification, NIST-compliant key management, and PCI DSS v3.2 adherence.

Multiple Deployment Options To Choose From

Security needs vary, and so should your HSM architecture. Whether you require full control, cloud agility, or a hybrid approach, our HSMaaS adapts to your business requirements, delivering the perfect balance of security, scalability, and compliance.



On-Premises

Strengthen your security by deploying our managed PKI within your own infrastructure, with full PQC capability management.



Managed PKIaaS

A fully managed PKI hosted and operated in Encryption Consulting's cloud, giving you complete PKI capabilities with zero infrastructure to run.



SaaS

Deploy PKIaaS within your own cloud environment for cloud agility and lower cost, with the PKI running inside your infrastructure and your team retaining local control.

Use Cases

Accelerate PKI automation, enhance security, and ensure compliance with PKIaaS, enabling trusted identity, encryption, and certificate lifecycle management across your organization.

- **Private clientAuth & mTLS:** Issue client authentication and mutual TLS certificates; public CAs are phasing out. For service-to-service, API, and zero trust workloads you own.
- **Hardware & Device Identity:** Provision DICE and 802.1AR-compliant IDevID and LDevID certificates for chips and devices during manufacturing, building X.509 trust from the silicon up.
- **SPDM Device Attestation:** Supply the device identity certificate chains for SPDM-enabled GPUs, NICs, SSDs, and accelerators present for authentication and firmware attestation at scale.
- **MDM:** Issue high-assurance certificates through Microsoft Intune to secure Intune-managed devices and applications, automate revocation, and simplify policy management.
- **Endpoint Authentication:** Secure endpoints with automated certificate issuance for UEM/MDM platforms, real-time synchronization, and granular access control with hybrid certificate support.
- **Automated Enrollment:** Streamline provisioning through automated enrollment for users and devices, supporting Microsoft ADCS, Intune, ACMEv2, and SCEP.
- **Managed Root CA:** Operate your root CA in compliance with ISO 27001, backed by FIPS 140-3 Level 3 HSMs, keeping full control over private keys, CRLs, and OCSP to issue ML-DSA and other PQC certificates.



Get in Touch

Ready to take control of your PKI security? Contact us today to learn how Encryption Consulting's PKIaaS can transform your enterprise with a secure, scalable, and compliant PKI solution tailored to your business.