

## DATASHEET

# Cryptographic Security Platform PKI as a Service (PKIaaS)

Secure trust. Simplify operations.  
Prepare for what's next.

Entrust PKI as a Service (PKIaaS) is a cloud-delivered capability of the Entrust Cryptographic Security Platform (CSP) that enables organizations to establish, manage, and automate digital trust across users, devices, applications, and infrastructure.

Built on Entrust's proven PKI and backed by quantum-ready nShield® HSMs, PKIaaS helps organizations modernize certificate lifecycle management, reduce operational risk, and prepare for the post-quantum future.

**The Challenge: Trust is expanding.  
Risk is accelerating.**

Digital trust has become foundational to business operations – but managing it has never been more complex.

**Organizations must secure:**

- Mobile and unmanaged devices
- Cloud and hybrid infrastructure
- Machine-to-machine communication
- APIs and modern applications
- IoT and network equipment

**At the same time, teams face mounting pressure from:**

- Shrinking certificate lifetimes and renewal volume
- Fragmented tools and limited visibility
- Increasing automation and devops velocity
- Compliance and audit requirements
- Emerging post-quantum cryptographic risk

Many organizations lack the in-house PKI expertise required to manage this complexity securely and efficiently.

### KEY BENEFITS

- Post-Quantum ready PKI foundation
- New CAs and certificate profiles for new use cases are provisioned in minutes
- CAs are dedicated and protected by Entrust nShield® HSMs running at FIPS 140-2 Level 3 in Tier III data centers
- High system availability
- Supports surge rates with the ability to issue certificates at >10 certs/second per customer
- API-based interfaces for certificate issuance and certificate lifecycle management
- Full support for certificate status through CRL publication and OCSP
- Optional managed offline root CA support for high-assurance deployments
- Part of Entrust's Cryptographic Security Platform to centralize cryptographic security and compliance

## A Cloud PKI foundation for modern cryptographic security

Entrust PKIaaS delivers a secure, cloud-native trust foundation that simplifies PKI deployment and operations while enabling centralized control across hybrid environments.

As part of the Entrust Cryptographic Security Platform, PKIaaS integrates with certificate lifecycle management, key management, HSMs, and compliance capabilities to provide a unified approach to cryptographic security.

### With PKIaaS, organizations can:

- Establish trusted identities for users, devices, and systems
- Automate certificate issuance, renewal, and revocation
- Reduce operational burden and human error
- Support modern IT and cloud use cases
- Enforce consistent cryptographic policy and compliance
- Enable crypto-agility and future-ready security

Designed for organizations that need simplicity without compromise

## Post-Quantum Ready Trust Infrastructure

Entrust PKIaaS was the first commercially available PKI platform designed to support post-quantum readiness.

Built on Entrust nShield HSMs with support for quantum-resistant algorithms, the platform enables organizations to begin their crypto-agility journey today while maintaining interoperability with existing systems.

### PKIaaS supports:

- Composite certificate models for a seamless transition to quantum-resistant security
- Crypto-agility to transition algorithms over time
- Policy-driven cryptographic control
- A future-ready trust foundation aligned with emerging standards

This ensures organizations can protect long-lived data and identities against future quantum threats.

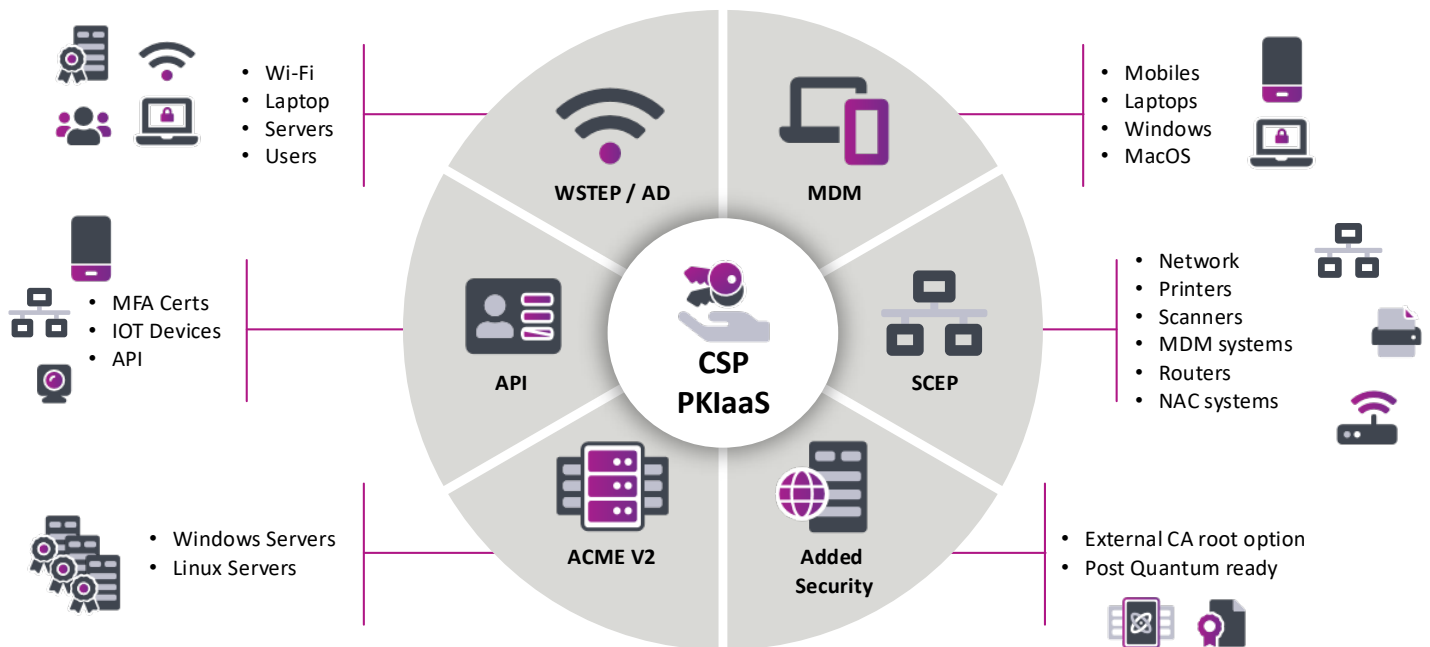
## Automated trust for modern IT environments

PKIaaS enables seamless integration with cloud and enterprise systems to automate certificate lifecycle processes and support common deployment scenarios, including:

- Mobile Device & Unified Endpoint Management (MDM/UEM)
- Active Directory auto-enrollment
- Private TLS & ACME automation
- Chromebook and legacy SCEP enrollment
- Network infrastructure and IoT device identity

By automating enrollment and lifecycle management, PKIaaS reduces manual effort, prevents outages, and strengthens security posture.

## Common Use Cases Enabled by PKIaaS:



## Part of the Entrust Cryptographic Security Platform: A Foundation for Cryptographic Security and Resilience

Entrust PKI as a Service is a core capability of the Entrust Cryptographic Security Platform - a unified platform designed to help organizations discover, manage, and protect cryptographic assets across hybrid and multi-cloud environments.

The platform provides centralized visibility and control over keys, certificates, secrets, and cryptographic policies, enabling organizations to reduce risk, simplify operations, and strengthen compliance.

Available as on-premises or as-a-service, the Entrust Cryptographic Security Platform allows organizations to modernize cryptographic security at their own pace while maintaining flexibility and control.