

PKI Discovery

From fragmented PKI to informed, confident decisions

Overview

Public key infrastructure (PKI) is the foundation of digital trust – securing identities, enabling encryption, and underpinning every critical interaction across modern enterprises.

But today's reality looks different.

As organizations scale across cloud, machine identities, and distributed systems, PKI often evolves without coordination – resulting in limited visibility, fragmented ownership, and growing operational risk.

PKI Discovery is a structured Professional Services engagement from Entrust's Cryptographic Center of Excellence that brings clarity to this complexity – providing a complete, evidence-based view of your PKI and a clear path forward. The engagement is vendor-neutral by design, ensuring recommendations are driven by your requirements – not a predefined solution. PKI Discovery is an advisory engagement and does not constitute a formal audit or certification assessment.

Why organizations start with PKI Discovery

PKI Discovery is designed for organizations that need confidence before transformation, including when:

- PKI spans multiple teams, tools, or environments with no central control
- Certificate ownership and lifecycle accountability are unclear
- PKI supports business-critical systems, applications, or infrastructure
- Existing architectures may limit scalability, resilience, or agility
- A defensible baseline is required for modernization, consolidation, or migration



What PKI Discovery Delivers

PKI Discovery delivers a decision-ready understanding of your cryptographic foundation, including:

- **Enterprise-wide PKI visibility**
A documented view of PKI across technology, use cases, operations, and governance
- **Risk and gap identification**
Insight into security, operational, and resilience vulnerabilities
- **Readiness for what's next**
Assessment of your PKI's ability to support evolving requirements, including automation, shorter certificate lifecycles, and new use cases
- **High-level solution direction**
Guidance on target architecture, deployment considerations, and potential migration paths
- **Prioritized, technology-agnostic recommendations**
Clear, actionable next steps and roadmap options aligned to business and technical objectives – independent of any specific vendor or platform

A Foundation for Crypto-Agility and Post-Quantum Readiness

PKI is central to any future cryptographic transition.

PKI Discovery helps organizations begin preparing for post-quantum cryptography (PQC) and broader crypto-agility by:

- Identifying long-lived cryptographic assets and dependencies
- Highlighting lifecycle and architectural constraints
- Exposing gaps that could slow or complicate future transitions

This ensures that PQC planning is grounded in real-world visibility – not assumptions

Engagement Approach

A proven, structured methodology designed to move from fragmentation to clarity:



Scope of Engagement

PKI Discovery includes:

- Review of PKI deployments and certificate usage across environments
- Identification of subscribers, relying parties, and trust relationships
- Assessment of lifecycle processes (issuance, renewal, revocation)
- Evaluation of availability, resilience, and operational controls
- Documentation of business, functional, and non-functional requirements
- High-level crypto-agility and future-state considerations
- Development of target-state principles and solution direction

Out of Scope

To maintain focus and independence, PKI Discovery does not include:

- Detailed PKI design or implementation plans
- Deployment, remediation, or migration execution
- Certificate Policy (CP) or Certification Practice Statement (CPS) development
- Implementation of recommendations

These activities can be addressed through follow-on professional services engagements.

Engagement Outcomes

Customers receive a PKI Discovery Report, including:

- Executive summary for business and security stakeholders
- Current-state PKI usage and dependency mapping
- Identified risks, gaps, and constraints

- Readiness assessment for future requirements
- Target-state principles and high-level solution direction
- Prioritized recommendations and indicative roadmap options

Why Entrust

Entrust brings decades of experience securing identities and enabling trust across enterprise, financial services, government, and critical infrastructure environments.

Delivered through the Cryptographic Center of Excellence, PKI Discovery combines:

- Deep cryptographic and PKI expertise
- Real-world operational experience
- Proven, structured methodologies

The result: practical, defensible recommendations that translate directly into action.

From Insights to Action

PKI Discovery provides the clarity needed to move forward with confidence.

From here, organizations can advance into targeted initiatives – whether modernizing PKI, strengthening governance, or preparing for future cryptographic transitions.

Entrust can support each next phase, from strategy through implementation, ensuring continuity from insight to execution.

Start with visibility. Move to control. Build for what's next.