



**ENTRUST**



# Entrust PKI professional services ensure best-practice PKI security

## INTRODUCTION

Public key infrastructures (PKIs)<sup>1</sup> help establish the identity of people, devices, and services, which makes it possible for enterprises to control access to systems and resources, protect data, and account for transactions. PKIs are integral to a trusted business environment for e-commerce and the growing Internet of Things (IoT).

Next generation business applications are increasingly relying on PKI technology to guarantee security, as evolving business models become more dependent on electronic interactions that require online authentication and compliance with stricter data security regulations. The proliferation of connected devices makes PKIs even more relevant today, because online devices need identities just as individuals do.

The Entrust professional services team has for decades designed and implemented crypto applications for the world's most security-conscious organizations. Our consultants will work closely with you to design and deploy the right solution for your unique environment and endow your team with the knowledge to maintain it for years to come.

Entrust is a Gold Certified Microsoft partner.

## Entrust PKI professional services

- Accelerate PKI deployment and reduce operating costs
- Ensure your PKI operates at best practice level
- Enable you to independently manage compliance
- Help you protect your organization's reputation and intellectual property

1. A public key infrastructure (PKI) is the set of hardware, software, policies, processes, and procedures required to create, manage, distribute, use, store, and revoke digital certificates and public-keys.



# Entrust PKI professional services ensure best-practice PKI security

## Entrust PKI professional services include:

### PKI training (PS-TRN-PKI)

A well-managed PKI system can protect your business from a data breach and prepare you for difficult audits. However, people, processes, and technology drive the successful use of PKIs, and in today's fluid workforce, personnel can quickly shift leaving PKIs in unfamiliar hands.

The Entrust professional services team has years of PKI deployment and management experience and will train your team on the ins and outs of PKIs. Entrust PKI training equips your staff to rapidly deploy and smoothly operate your system through its lifecycle. Designed for any team members involved in PKI operations, the training helps instill the skills your team needs to build your system and keep it running as efficiently as possible.

Entrust PKI training provides your staff:

- Foundational understanding of today's cryptographic systems and PKIs
- Competence gained from real-world use cases and hands-on exercises
- Progressively learned skills—instructors work with students to evaluate their knowledge acquisition and build on each new topic
- Experience and confidence to begin managing PKI systems effectively

### Enterprise PKI deployment service (PS-PKI-CONS)

Many businesses rely on digital certificates as security tokens for a wide variety of purposes, such as authentication, digital signing and encryption. While many services and applications can use these certificates, Certificate Authorities are often deployed to satisfy a single business need without considering other potential uses. The Entrust professional services team can help your business reconsider its approach to certificates and PKIs to support multiple use cases and applications.

Entrust's enterprise PKI deployment service provides:

- Expanded functionality from your existing PKI
- A wide variety of PKI options to meet your business needs
- High confidence in your PKI solution afforded by thorough planning, documentation and testing
- Enhanced security through Entrust nShield® hardware security modules (HSMs) proven through thousands of units deployed globally



# Entrust PKI professional services ensure best-practice PKI security

## PKI migration (PS-PKI-CONS)

Cryptographic hashes are the basis of certificate-based message authentication in virtually all Internet protocols. With the SHA-1 hashing algorithm now considered unsafe, organizations are rapidly migrating to SHA-2. All major browser vendors have stopped supporting SHA-1 signed certificates.

Moving to SHA-2 presents a complex problem due to the integral nature of hash algorithms within PKIs, as well as various industry and application incompatibilities with SHA-2. Entrust professional services can help you securely manage the complexities of this critical migration.

The PKI migration service will help you securely manage the complexities of the critical migration of your PKI from SHA-1 based certificates to SHA-2, or to migrate from older Windows 2008 Server CAs. An Entrust consultant will help you assess your options and support your migration as needed, from planning and documentation through testing and deployment.

Entrust's PKI migration service provides:

- Expertise to help you efficiently select among migration options
- In-depth knowledge of complexities to help you avoid pitfalls and mitigate risks
- Thorough upfront planning to minimize downtime

## PKI healthcheck (PS-PKI-HC)

Knowing that your PKI is securely deployed and optimally configured for your business assures you and your management that the PKI is generating real business value for your organization.

The Entrust PKI healthcheck service will ensure your PKI is deployed in a secure state, and that it is optimally configured for your business. An Entrust professional services consultant will analyze the technical aspects of your PKI along with your policy and governance, and provide both a written report and formal presentation of detailed findings and recommendations.

Entrust's PKI healthcheck provides:

- Thorough and actionable recommendations to rectify issues and enhance the health of your PKI
- Comprehensive analysis extending beyond PKI technology to include policy and governance
- Expert counsel on security-enhancing hardware security modules (HSMs)

## Learn more

To find out more about Entrust nShield HSMs visit [entrust.com/HSM](https://www.entrust.com/HSM). To learn more about Entrust's digital security solutions for identities, access, communications and data visit [entrust.com](https://www.entrust.com)

To find out more about  
Entrust nShield HSMs

**HSMinfo@entrust.com**

**entrust.com/HSM**

## ABOUT ENTRUST CORPORATION

Entrust keeps the world moving safely by enabling trusted identities, payments and data protection. Today more than ever, people demand seamless, secure experiences, whether they're crossing borders, making a purchase, accessing e-government services or logging into corporate networks. Entrust offers an unmatched breadth of digital security and credential issuance solutions at the very heart of all these interactions. With more than 2,500 colleagues, a network of global partners, and customers in over 150 countries, it's no wonder the world's most entrusted organizations trust us.



Learn more at

**entrust.com/HSM**



**ENTRUST**

Contact us:

**HSMinfo@entrust.com**