



ENTRUST

Entrust Delivers Root of Trust for PrimeKey Certificate and Signing Solutions

Robust public key infrastructure solution meets today's high performance and scalability demands

HIGHLIGHTS

- Proven industrial strength and scalability
- Fit for IoT, enterprise, and government
- Address end-to-end PKI needs: certificate / registration authority, validation (CLR and OCSP), time stamp, document, and code signing
- Support multi-tenant and multi-use case platforms
- Available as software, in an appliance, or in the cloud

The Problem:

Enterprise digital transformation can open vulnerabilities if not properly deployed

Digitization and the Internet of Things (IoT) provides unique opportunities for cost reduction and increased revenues. Leveraging the opportunities that digitalization and the connected society enable also requires awareness of the security risks that it can bring.

Delivered

in cloud, appliance, and software



Use cases

in several areas



Document signing



Code signing



Time stamping



Travel documents

Products

for advanced enterprise security



Secured by Entrust nShield HSMs



Entrust nShield® HSMs provide a root of trust for PrimeKey EJBCA and SignServer PKI Solutions.



[LEARN MORE ABOUT HSM AT ENTRUST.COM](http://entrust.com)



Entrust and PrimeKey Integrated Solution

For long-term success, it is crucial to safeguard that:

- Code running on the devices – including firmware, operating system, and applications – is authorized and not tampered to ensure integrity
- The individuals managing the device or system are authorized to do so and are properly authenticated when doing this
- Data in transit between devices, people, and applications can be authenticated and protected from unauthorized changes
- Transactions, money transfers, loan application, or even minutes of meetings can be secured and authenticated now and in the future

Unique and traceable identities for people, servers, and devices are a pre-requisite for proper security. A PKI and a certificate management system have proven to be the most secure and cost-efficient way of implementing trusted identities.

The Solution:

Entrust and PrimeKey certificate life cycle management and signing solutions

PrimeKey's PKI offering enables implementation of certificate management and electronic signature functions. PrimeKey PKI products include:

- EJBCA Enterprise – for CA, RA, and validation services
- SignServer Enterprise – for document/code-signing and timestamping services

Integrating with Entrust nShield® hardware security modules (HSMs), the combined solution delivers secure key management functions supporting:

- Key generation and storage
- CAs signing certificates
- CRLs and OCSP requests
- Electronic signatures
- Timestamping

Why use Entrust nShield with the enterprise PKI products from PrimeKey?

Encryption keys handled outside the cryptographic boundary of a certified HSM are significantly more vulnerable to attacks, which can lead to compromise of critical keys. HSMs are the only proven and auditable way to secure valuable cryptographic material and thus enforce security policies.

Entrust nShield HSMs integrate with PrimeKey EJBCA Enterprise and SignServer Enterprise to provide comprehensive logical and physical protection of keys used for certificate authority, validation, and timestamping functions, as well as digital signature functions for documents and code. In addition, Entrust nShield HSMs are extensively used for internal administrative security operations including protection of TLS keys and signed audit logs.



Entrust and PrimeKey Integrated Solution

Entrust nShield HSMs enable PrimeKey customers to:

- Secure keys within carefully designed cryptographic boundaries that use robust access control mechanisms, ensuring keys are only used for their authorized purpose
- Ensure key availability by using sophisticated management, storage, and redundancy features to guarantee they are always accessible when needed by the CA, validation, and signature services
- Deliver superior performance to support growing and multi-use case environments

Entrust nShield HSMs provide a certified hardened, tamper-resistant environment for performing secure cryptographic processing, key protection, and key management. With Entrust HSMs, you can:

- Provide a tightly controlled tamper-resistant environment for safekeeping and managing encryption keys
- Enforce key use policies, separating security functions from administrative tasks
- Interface with applications using industry-standard APIs (PKCS#11, OpenSSL, JCE, CAPI, CNG, and Web Services API in conjunction with Web Services Option Pack)

Entrust HSMs

Entrust nShield HSMs are among the highest-performing, most secure, and easy-to-integrate HSM solutions available, facilitating regulatory compliance and delivering the highest levels of data and application security for enterprise, financial, and government organizations. Our unique Security World key management architecture provides strong, granular controls over access and usage of keys.

PrimeKey

PrimeKey provides PKI and digital signing solutions with products such as EJBCA, SignServer, and PKI Appliance. Delivered on-premises or in the cloud, PrimeKey products are used in industries where IT security and integrity is a priority.

primekey.com

Learn more

To find out more about Entrust nShield HSMs visit entrust.com/HSM. To learn more about Entrust's digital security solutions for identities, access, communications, and data visit entrust.com

To find out more about
Entrust nShield HSMs

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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



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