

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

- 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



# PrimeKey and nCipher deliver flexible and secure certificate management and signing

### PROBLEM: ENTERPRISE DIGITAL TRANSFORMATION CAN OPEN VULNERABILITIES IF NOT PROPERLY DEPLOYED

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

Delivered in Cloud, appliance and software



Use Cases in several areas



Products for advanced enterprise security



Secured by nCipher nShield HSMs



nCipher nShield HSMs provides root of trust for PrimeKey EJBCA and SignServer PKI Solutions.

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## SOLUTION: PRIMEKEY AND NCIPHER CERTIFICATE LIFE CYCLE MANAGEMENT AND SIGNING SOLUTIONS

PrimeKey's end-to-end 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 time-stamping services

Integrating with nCipher 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
- Times stamping

## WHY USE NCIPHER 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.

nCipher nShield HSMs integrates with PrimeKey EJBCA Enterprise and SignServer Enterprise to provide comprehensive logical and physical protection of keys used for Certificate Authority, Validation, and Time-Stamping functions, as well as digital signature functions for documents and code. In addition, nCipher nShield HSMs are extensively used for internal administrative security operations including protection of TLS keys and signed audit logs.

nCipher nShield HSMs enable PrimeKey customers to:

- Secure keys within carefully designed cryptographic boundaries that use robust access control mechanisms, so 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

nCipher nShield HSMs provide a certified hardened, tamper-resistant environment for performing secure cryptographic processing, key protection, and key management. With nCipher 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, and CNG)

## NCIPHER

Today's fast moving digital environment enhances customer satisfaction, gives competitive advantage and improves operational efficiency. It also multiplies the security risks.

nCipher Security empowers world-leading organizations by delivering trust, integrity and control to their business critical information and applications.

Our cryptographic solutions secure emerging technologies – cloud, IoT, blockchain, digital payments – and help meet new compliance mandates, using the same proven technology that global organizations depend on today to protect against threats to their sensitive data, network communications and enterprise infrastructure. We deliver trust for your business critical applications, ensuring the integrity of your data and putting you in complete control – today, tomorrow, at all times.

## PRIMEKEY

PrimeKey is one of the world's leading companies for PKI and digital signing solutions. Delivered on-prem or in the cloud, our products EJBCA, SignServer and the PKI Appliance, deliver the capability to implement an enterprise grade PKI system ready to support solutions such as IoT, e-ID, e-Passports, authentication, digital signatures, code signing, digital identities, and validation; all solutions where digital certificates would be a main enabler. Our products are Common Criteria and FIPS certified, we have numerous Webtrust/ETSI and eIDAS audited installations, and our internal processes are ISO 9001, 14001, and 27001 certified.

For more detailed technical specifications, please visit [www.ncipher.com](http://www.ncipher.com) or [www.primekey.com](http://www.primekey.com)

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