CORE
Business Datasheet

What is Unbound CORE?

Today's cryptographic landscape is extremely fragmented. Organizations need to manage keys for many different applications in many different environments (on-premise and in different clouds) using many different key stores (physical and cloud HSMs, cloud KMSs and vaults, etc.). This fragmentation introduces significant challenges for security professionals to support business initiatives. In particular, siloed management solutions make it difficult to set companywide policies, audits on key usage and admin operations are disparate, and the administration of infrastructure via many different systems is costly, error-prone and slow. In addition, different key stores provide different interfaces, forcing applications to authenticate and consume cryptography in different ways in each different environment. All of this makes cryptography slow to deploy and inhibits business initiatives.

Unbound Security offers a comprehensive solution for managing and consuming cryptography in its new **CORE platform** – Cryptographic Orchestration Reimagined for the Enterprise. CORE provides a single pane of glass for managing all cryptographic infrastructure, and a unified interface for consuming cryptography across the enterprise, breaking down the legacy approach of siloes.

Unbound CORE comes with a built-in software-based key store that combines all of the benefits of software with high security, utilizing MPC technology. This key store complements existing hardware and cloud key stores, to support fast on-demand deployment, high availability and agility. Unbound's MPC key store can be deployed in the same way in every environment, supporting gradual cloud migration strategies.

Benefits

Unbound CORE is flexible, powerful, and versatile – giving you, the enterprise, the security you need while easing the headache of managing diverse cryptographic infrastructure.

- **Store keys anywhere** - Unbound CORE transcends borders and connects key stores of all types (physical HSM, cloud HSM, cloud KMS, MPC key store) to make them interoperable.

- **Single pane of glass for managing all keys in all key stores** – With Unbound CORE, it is possible to set companywide policies for cryptographic keys and key usage, key rotation, access control and more. In addition, CORE provides a single audit of all operations, irrespective of what key store is actually being used.

- **Universal APIs** – Different applications in different environments using different key stores can use a single interface via CORE. Unbound CORE supports all of the standard cryptographic libraries (PKCS11, Java JCA, MS CNG, OpenSSL, KMIP) as well a powerful and easy-to-use REST API, for all supported key stores.

- **Unified authentication and authorization** – CORE provides unified authentication for both administering different key stores and for carrying out cryptographic operations. Beyond a standard username/password approach, CORE supports OpenID Connect, making it easy for enterprises to leverage existing authentication in the organization.

- **Virtualized cryptography** – Unbound CORE creates a virtual mesh of cryptographic infrastructure, providing automatic synchronization of keys and administrator settings, across all key stores. Unbound's MPC key store complements existing key stores with a software-based key store to provide native virtualization.

- **No single point of failure** – Unbound CORE is designed for defense in depth and to remove single points of security failure. CORE provides protection via distribution, decentralization, and diversification: organizations can use a combination of different technologies for key protection, MPC key stores ensure that key material never resides in a single place, and CORE's key misuse protection constructs a cryptography firewall across all key stores.

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- **Expandable** – Unbound grows with you: once the platform is deployed for one use case, it can easily be extended to more use cases. As a result, Unbound's customers gradually grow their use of CORE as they deploy new applications requiring cryptography, or transition legacy solutions due to them deprecating or the need to support new environments.

- **Backwards compatible, future ready** – CORE integrates with any legacy security system and does not interrupt existing workflows. It is also easy to upgrade and so can adapt to future standards like post-quantum cryptography.

Why Unbound?

- **Built for premiere enterprise clients** – Fortune 500 companies and international banks trust CORE to secure critical assets across their infrastructure.

- **In-house cryptographic expertise** – Unbound Security is run by the world's best-known experts in applied cryptography, including Professors Yehuda Lindell and Nigel Smart.

Use Cases

- CORE Key Management, on-premise and in the cloud

- CORE Information Security

  - Code Signing
  - Infrastructure Encryption: databases, storage, virtual machines, secrets vaults, etc.
  - App Level Cryptography
  - Tokenization

- CORE Identity Security

  - PKI & Certificates
  - Virtual Enclave for Mobile
  - Virtual Enclave for Desktops

- CORE Crypto Asset Security

  - Crypto Asset Security for Custody
  - Crypto Asset Security for Exchanges
  - Enterprise Blockchain

About Unbound

Unbound Security is the global leader in cryptography and empowers enterprise customers worldwide to confidently secure, manage and authenticate all critical business transactions, information, identity, and digital assets – anywhere, anytime. Unbound Security CORE is the enterprise platform of choice for secure key management, trusted by many of the world's largest banks and Fortune 500 companies. Unbound Security is a recent recipient of the Deloitte Fast 500 award and is headquartered in New York, with research and development facilities in Tel Aviv. Learn more at www.unboundsecurity.com and follow us on LinkedIn and Twitter.