Garantir

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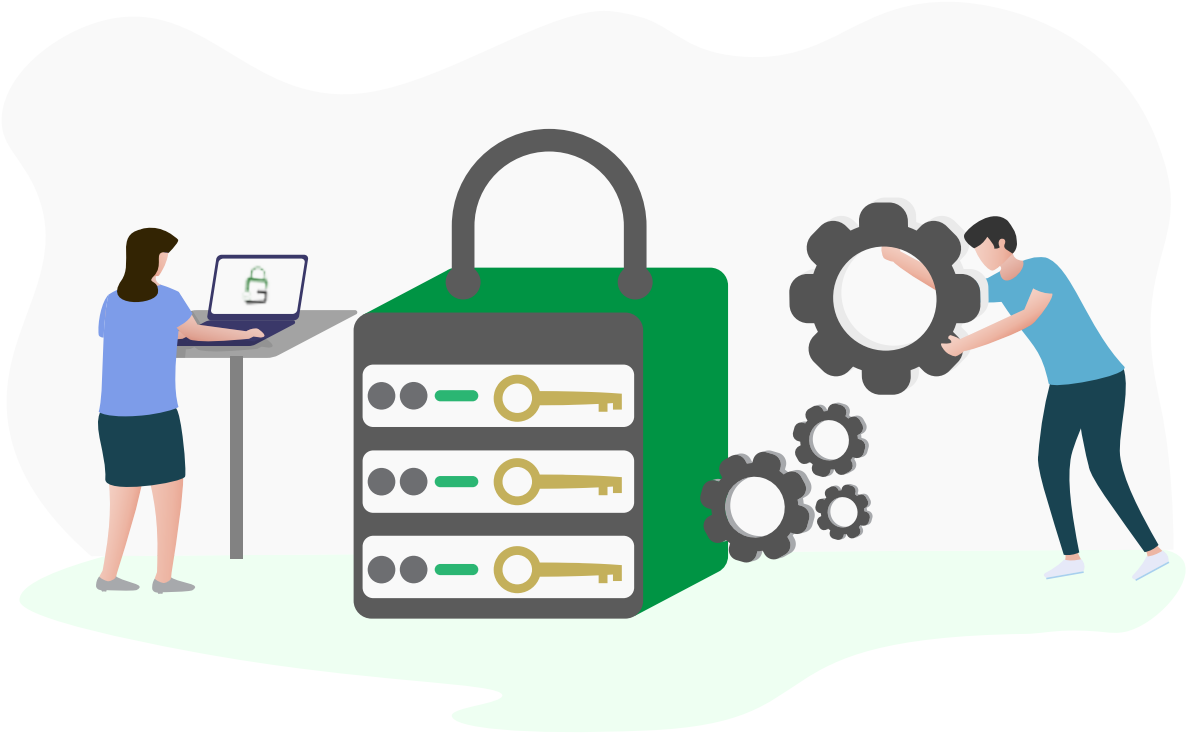

Garantir and nCipher deliver a secure digital signature solution for the enterprise.

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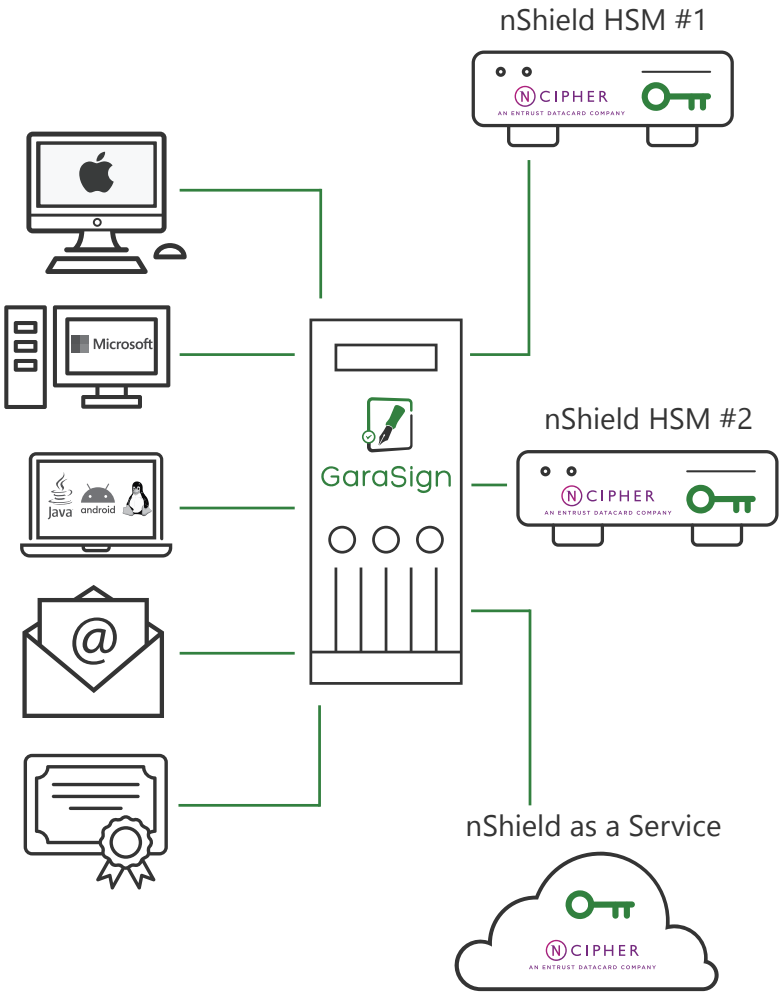
GaraSign enables customers to deploy scalable signing systems with an nShield HSM root of trust.

- Protect sensitive cryptographic keys throughout entire lifecycle
- Integrate nShield hardware security module (HSM) root of trust
- Allow clients to hash their data prior to sending it over network
- Deliver high speed required for performance-sensitive systems
- Integrate with Active Directory, log management and notification systems
- Support wide set of clients for quick integration into workflows

Balacing Security & Performance For An Enterprise-Wide Digital Signature Platform Is Hard

Now more than ever, companies are making heavy use of public key cryptography to meet the growing demands of the tech industry. Unfortunately, the tools provided by the industry haven't scaled well and companies have had to choose between security and performance. What companies need is a way to achieve the performance delivered by local keys with the security and scalability of centralized key management, backed by an nCipher HSM root of trust.



Fast, Secure, and Scalable Digital Signatures With GaraSign

GaraSign, Garantir's digital signature platform, balances the security and performance of digital signatures across the enterprise. The solution allows clients to hash data client-side, before sending over the network for signing. Using this approach, the data sent over the network is minimal which allows for sub-second signatures without exposing sensitive private keys.

Developed on an open REST API, GaraSign allows for custom integrations. On the client side, GaraSign integrates with existing signing tools and email clients while supporting HSMs, key managers, and software-based key stores simultaneously on the backend.

GaraSign integrates with nCipher nShield Connect HSMs and nSaaS to protect and manage the private signing keys used to sign their hashed data.

Why use nCipher nShield hardware security modules with GaraSign?

Encryption and signing keys handled outside the cryptographic boundary of a certified HSM are significantly more vulnerable to attack, which can lead to compromise of critical keys. HSMs are the only proven and auditable way to secure valuable cryptographic key material. nCipher nShield Connect HSMs and nSaaS integrate with GaraSign to provide comprehensive logical and physical protection of the private keys used for enterprise-wide code signing, SSH, S/MIME, and TLS deployments.

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nCipher nShield HSMs enable GaraSign 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 GaraSign's signing and administration servers

- Deliver superior performance to support time-sensitive signing applications

nCipher nShield Connect HSMs provide a 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 is a leader in the general purpose HSM market, empowering 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 nterprise 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.

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Garantir is a cybersecurity company that provides advanced cryptographic solutions to the enterprise. The Garantir team has worked on the security needs of businesses of all sizes, from startups to Fortune 500 companies. At the core of Garantir's philosophy is the belief that securing business infrastructure and data should not hinder performance or interrupt day-to-day operations. With GaraSign, Garantir's flagship product, private keys remain secured at all times, without limiting the performance of cryptographic operations, including code signing, SSH, S/MIME, document signing, TLS, secure backup, and more.

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