Fast, Secure, and Scalable Digital Signatures
HSM-Backed Digital Signatures for Code Signing, SSH, S/MIME, and more...

Benefits of GaraSign with DPoD or Luna HSMs
- **Strong security** – keys never leave the HSM
- **Reporting and audit** features for easier adherence to compliance regulations
- Delivers proven **compliance**, reliability and ease of use
- **High performance** – client-side hashing results in very fast throughput
- **Scalable** – all nodes are horizontally and vertically scalable
- **Easy to manage** – keys are centrally managed and the GaraSign administrative interface gives you insight into all activity in the system
- **Easy to use** – clients do not need to be aware of the HSM or be given direct access to it
- **Cloud capable** – GaraSign can be deployed on-premises, in the cloud, or in a hybrid environment
- **Enterprise ready** – GaraSign integrates with all your enterprise features including Active Directory, log management platforms, notification systems, and more

Balancing Security and Performance

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 – storing the keys in an HSM - and performance – distributing the keys out to end users. It is common for enterprises to distribute SSH and S/MIME keys to the various computers in their network, leaving those keys exposed and tough to manage. Those same companies often require their developers and build teams to upload their code and binaries to a central server that has access to the corporate HSM for code signing, leading to a performance bottleneck for CI/CD servers. What companies need is a way to achieve the performance of local keys with the security and scalability of centralized key management backed by a hardware security modules (HSMs).

Fast, Secure, and Scalable Digital Signatures with GaraSign and Thales

GaraSign, Garantir’s digital signature platform, addresses these issues by allowing clients to hash the data client-side before sending the data over the network to be signed by the keys in the HSM. Using this approach, the data sent over the network is minimal which allows for sub-second signatures without exposing the sensitive private key material.
Largest set of client integrations – GaraSign comes with the largest set of client integrations including, but not limited to:

- Windows
- Java/Android
- macOS
- RPM
- GPG
- Debian
- OpenSSL
- PKCS#11
- NPM
- … and more

GaraSign & Thales HSMs

Combining GaraSign with the industry’s most trusted brand of HSM is a natural integration. When backed with a Thales DPoD or Luna HSMs, GaraSign provides unrivaled key protection, performance, and scalability.

Thales offers two solutions that maintain Root of Trust private key protection for GaraSign. Both Data Protection On Demand and Luna HSMs provide companies FIPS 140-2 Level 3 compliance with the option of maintaining root of trust protection and management of encryption keys across cloud-based, hybrid/multi-cloud, on-premises, or a mixture of deployments. This flexibility makes it easier to deploy a solution to address ever-changing compliance mandates and budgetary requirements.

SafeNet Data Protection on Demand (DPoD) provides a cloud-based HSM service that offers key management capabilities that can be deployed within minutes with no need for specialized hardware or associated skills. This subscription based HSM solution offers a secure storage of keys in the cloud while maintaining strict access controls so that only the customer has access to their keys.

Luna HSMs store, protect, and manage sensitive cryptographic keys in a tamper resistant on-premises Luna HSM, providing high-assurance hardware key protection and key ownership within an organization’s own IT infrastructure.

About Thales

The people you rely on to protect your privacy rely on Thales to protect their data. When it comes to data security, organizations are faced with an increasing amount of decisive moments. Whether the moment is building an encryption strategy, moving to the cloud, or meeting compliance mandates, you can rely on Thales to secure your digital transformation.

Decisive technology for decisive moments.

About Garantir

Garantir is a cybersecurity company experienced in integrating high performing security solutions into the enterprise. We believe that safeguarding your infrastructure should not come at the cost of efficiency, and we develop products that enable our customers to maintain maximum security without impacting performance.

With a wealth of expertise, our team has worked on the digital security needs for many of the Fortune 500 companies. We specialize in digital signatures, key management, certificate lifecycle management, public key infrastructure, secure software development, continuous integration, and secure software delivery.