Entrust nShield QSCD Helps SIGNIUS Provide eIDAS-compliant Remote Document Signing

Challenge

SIGNIUS offers a wide range of eIDAS-compliant solutions for remote and on-premises document signing and sealing. When the company wanted to launch its SIGNIUS Professional platform for remote signing based on a unique customer onboarding process, it needed a Qualified Signature Creation Device (QSCD) to protect its most sensitive asset – the Qualified Electronic Seal.

As the eIDAS regulation is very clear about local hosting of a QSCD, the challenge was to find a supplier of a high-performance device that is Common Criteria EAL4+ AVA_VAN.5 and ALC_FLR.2 certified against the Protection Profile EN 419 221-5 – "Cryptographic Module for Trust Services."

CUSTOMER PROFILE

SIGNIUS S.A. offers a wide range of eIDAS-compliant solutions for trusted services: electronic signatures and seals for individual and corporate clients, remote customer video identification as well as local mass sealing, timestamping, and archiving of documents.

Customer Objectives

- Replacement of poor performing legacy smart cards and card-reading devices
- Flexible integration with existing document management and workflow solutions
- Wide support for various document management, CRM, and ERP systems
- On-premises setup to guarantee the highest level of privacy and compliance with GDPR

Solution

Entrust nShield Hardware Security Modules (HSMs)

Learn more about nShield HSMs at entrust.com/HSM

SIGNIUS Case Study

Solution

Based on an Entrust nShield HSM as a Qualified Signature Creation Device, SIGNIUS has developed a cloud and on-premises document and contract signing platform. This enables SIGNIUS to provide an end-to-end digital contract management and eIDAS-compliant remote signing service with strong and flexible customer identification.

The service significantly reduces costs, increases security, and offers greater confidence in transactions, by enabling seamless and secure digital signing for small, medium, and large organizations.

Results

Today, SIGNIUS provides a best-in-class, straightforward user experience for remote signing. Instead of bothering with paper-based processes, documents are being signed by customers from their device, without the need for any additional hardware or software components at hand.

The complete process of customer acquisition, onboarding, or signing a contract is fully integrated with existing systems and completed in one single digital session – without a time-consuming process for printing, mailing, and signing a paper copy of the negotiated contract.

The approach developed by SIGNIUS delivers:

- Fast time to market by eliminating the off-line process of obtaining a wet signature from the customer or a business partner
- eIDAS regulatory compliance
- Secure storage of the organization's keys in a tamper-proof QSCD
- Provision of tokenless digital signatures
- Turnkey services for remote signing and sealing of documents and remote customer verification from one provider
- Highest assurance in the signing process due to certified, remote, and instant identity verification of all persons signing documents
- High levels of integration with existing systems (e.g., DMS, CRM, ERP, AD, IdP)

The Transformation

The implementation of the Entrust nShield HSMs has enabled SIGNIUS to deliver high-performance remote signing with up to 8,600 operations per second (30 million per hour) with a 2048-bit RSA key.

SIGNIUS Case Study

Measures of Success

The SIGNIUS implementation delivers a wide range of benefits and features:

- Mass signing with up to 30 million signatures per hour
- eIDAS-certified and tamper-proof QSCD
- Non-repudiation, confirmed authenticity, and high integrity
- Sealing of documents without volume-based fees charged by trust service provider
- eIDAS compliance recognized in the EU
- Long-term archiving and qualified timestamping available upon request

The Entrust Advantage

Entrust nShield HSMs and nShield as a Service are among the highest-performing, most secure, and easy-to-integrate HSM solutions available. They facilitate regulatory compliance and deliver the highest levels of data and application security for enterprise, financial, and government organizations. The unique Security World key management architecture provides strong, granular controls over the access and usage of key policies.

Entrust nShield HSMs are certified by the European Commission and in the list of Secure Signature Creation Devices, as a Qualified Signature Creation Device (QSigCD), and Qualified Seal Creation Device (QSealCD), providing the surety that these devices are compliant and compatible.

> **We're excited to partner with Entrust, which allows us to provide eIDAS-compliant signing services ahead of our competition. By utilizing the high-performance model of the Entrust QSCD, we are well-prepared to create a lot of noise in Central and Eastern European markets.**
>
> Jack Piekarski, CEO, SIGNIUS S.A.

Learn more at
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