



ENTRUST

Enabling eIDAS-Compliant Remote Signing Services

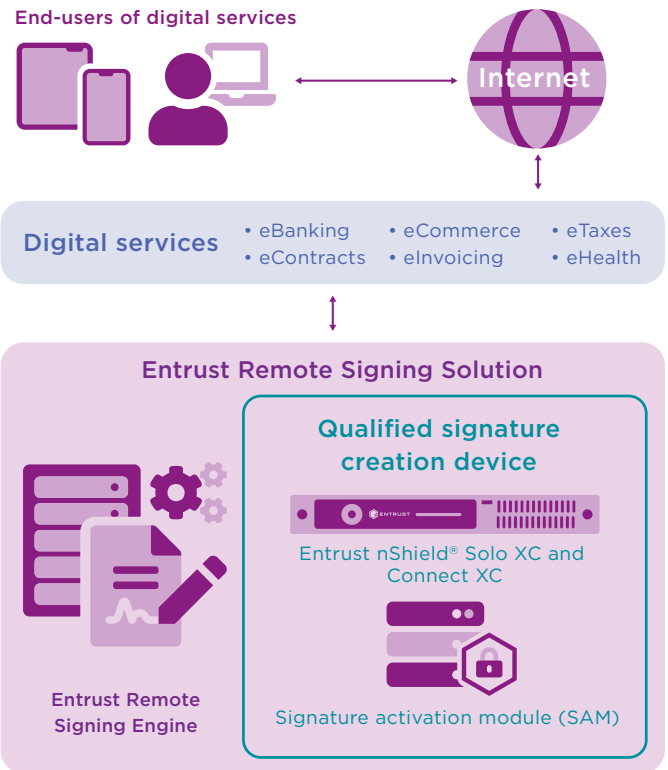
Scalable user-centric digital signing

HIGHLIGHTS

- Document signatures are approved remotely by users from their device
- Based on ETSI and CEN standards
- FIPS 140-2 Level 3, Common Criteria EAL4+ and CEN EN 419 221-5 root of trust
- Alignment with EU eIDAS Regulation

The problem: eIDAS compliance for digital signature services require a high level of expertise and a very specific implementation

The significant increase in remote business and the development of regulations such as eIDAS are paving the way for digital signatures in lieu of wet-ink signatures: no more face-to-face required; no more “print, sign, scan, and email”; shorter execution times and reduced operational costs. However, the implementation of a scalable and compliant signing service requires specific expertise and purpose-built engines.



Entrust nShield® Solo XC and Connect XC integrate with the Entrust Remote Signing Engine to protect the PKI key attributes



Enabling eIDAS-Compliant Remote Signing Services

The challenge: implementing a user-centric, compliant signing service that can be easily integrated to service providers and identity providers

An eIDAS-compliant remote signing service must be set up in accordance with very specific standards and cover a large number of end-users with a wide variety of devices. It also requires strong integration capabilities to identity providers and PKI services, while maintaining a fully-transparent user experience.

The solution: a platform providing a legally compliant, cloud-based signing service that can be used through a web API, with signing keys centrally protected within an HSM

The Entrust Remote Signing Engine is a platform providing a legally compliant cloud-based signing service that can be used through a web API. Signing keys are centrally protected within a hardware security module (HSM), and document signatures are approved remotely by users from their device, without the need for a hardware or software token.

The platform provides advanced and qualified signatures as defined by eIDAS. It is based on ETSI and CEN standards, which guarantee a very high level of trust and a broad interoperability with the industry products that require digital signatures. The user onboarding and signing process is transparent, does not require specific knowledge, and can be done from any device.

Entrust solutions cover both current and future eIDAS compliance needs:

- As per the current eIDAS regulation, Entrust nShield® Solo XC and Connect XC are certified as qualified signature creation devices (QSCDs) under Common Criteria EAL4+
- As per the upcoming eIDAS amendment, the combination of the Entrust nShield XC HSM (Common Criteria CEN EN 419 221-5) and the Entrust Signature Activation Module (CEN EN 419 241-2) provide a fully compliant QSCD

Why use Entrust nShield HSMs with the Entrust Remote Signing Engine?

Cryptographic keys handled outside the protected boundary of a certified HSM are vulnerable to attacks, which can lead to security breaches. HSMs offer a proven and auditable way to secure valuable cryptographic material. Entrust nShield HSMs integrate with the Entrust Remote Signing Engine to provide comprehensive logical and physical protection of the PKI key attributes. The combined solution delivers an auditable method for enforcing security policies that:

- Enables customers and service providers to meet EU cross-border standards
- Generates and manages sensitive cryptographic keys in a certified, tamper-resistant hardware environment
- Delivers a root of trust for all derived digital services



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Providing a mechanism to enforce security policies and a secure, tamper-resistant environment, Entrust nShield HSMs enable customers to:

- Secure keys within a carefully designed cryptographic boundary that uses a robust access control mechanism, 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
- Deliver superior performance to support the most demanding applications

Entrust Remote Signing Engine

The purpose-built Remote Signing Engine provides:

- eIDAS-compliant advanced and qualified signature solutions
- Single platform for digital signature across end-user devices
- Increased user security and convenience with Mobile ID, a mobile application (also available in SDK) for user authentication and signature approval
- Easy integration with other Entrust solutions: PKI, authentication, timestamping services, etc.

Entrust HSMs

Entrust nShield HSMs are among the highest-performing, most secure, and easy-to-integrate HSM solutions available, facilitating regulatory compliance and delivering the highest levels of data and application security for enterprise, financial, and government organizations.

Our unique Security World key management architecture provides strong, granular controls over access and usage of keys.

Learn more

To find out more about Entrust nShield HSMs visit entrust.com/HSM. To learn more about Entrust's digital security solutions for identities, access, communications and data visit entrust.com.

To find out more about
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ABOUT ENTRUST CORPORATION

Entrust keeps the world moving safely by enabling strong identities, secure payments, and protected data. We offer an unmatched breadth of solutions that are critical to the future of secure enterprises, governments, the people they serve, and the data and transactions associated with them. With our experts serving customers in more than 150 countries and a network of global partners, it's no wonder the world's most trusted organizations trust us.

Learn more at
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