



ENTRUST

INTESI GROUP and Entrust provide eIDAS compliant remote signature solution

Enable trusted paperless processes and secured digital cross-border business throughout Europe

HIGHLIGHTS

- Support digital signing, authentication, and encryption
- Provide secure electronic signature

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The challenge: delivering a flexible, scalable, and trusted service for digital cross-border business

The regulation on electronic identification and trust services for electronic transactions (eIDAS) establishes the common standard that enables legally-binding cross-border business across Europe. eIDAS compliant Qualified Signature Creation Devices (QSCDs) enable users to remotely sign transactions and documents. To ensure that the electronic signatures receive the same legal recognition as those created in traditional user-managed environments, trustworthy systems and channels must be used to guarantee reliability and control, including use of cryptography and the protection of associated signing keys.

The solution: legally recognized remote electronic signatures with a strong cryptographic root of trust

INTESI GROUP PkBox security server is a QSCD designed for high volume transactional environments. When used with qualified certificates, PkBox generates legally-binding Qualified Electronic Signatures and Qualified Electronic Seals. The solution enables public and private organizations from industries such as banking, insurance, and healthcare to capitalize on the opportunities brought by eIDAS Regulation EU 910/2014 regarding the implementation of paperless processes and digital cross-border business. PkBox can be used for signature and seal creation, verification, authentication, and encryption.

The solution offers high performance, resiliency, and scalability. Capable of managing millions of signature credentials and one-time passwords (OTPs), the solution can easily scale in a load-balanced multi-tiered architecture. PkBox supports in-house deployments, as well as remote signatures based on the INTESI GROUP Time4Mind cloud service.

INTESI GROUP PkBox integrates with Entrust nShield® hardware security modules (HSMs) to safeguard and manage the cryptographic keys used to support the signing process. The result is a certified high performance solution able to handle large volumes of transactions with maximum flexibility.

Why use Entrust nShield HSMs with INTESI GROUP PKbox?

Signing keys handled outside the cryptographic boundary of a certified HSM are significantly more vulnerable to attack, which can lead to compromise of critical data. HSMs are the only proven and auditable way to secure cryptographic material. nShield HSMs integrate with PkBox to safeguard security sensitive information including OTP seeds, signature keys, and authentication passwords. The HSM provides comprehensive logical and physical protection, delivers an auditable method for enforcing security policies, and builds a strong root of trust with a secure signature creation device.



Entrust nShield Connect HSMs enables INTESI GROUP PkBox customers to:

- Secure keys within carefully designed cryptographic boundaries that use robust access control mechanisms, so that 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 the QSCD
- Deliver superior performance to support demanding transaction volumes

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.

INTESI GROUP

PkBox provides state of the art remote electronic signature, data encryption, and strong authentication. Thanks to its scalable and flexible architecture, PkBox enables a software factory to:

Manage any kind of security tasks (key management, electronic signature, verification, and time stamping) without the need of knowing the underlining technologies

Develop solution to manage millions of



ABOUT ENTRUST CORPORATION

Entrust keeps the world moving safely by enabling trusted identities, payments and data protection. Today more than ever, people demand seamless, secure experiences, whether they're crossing borders, making a purchase, accessing e-government services or logging into corporate networks. Entrust offers an unmatched breadth of digital security and credential issuance solutions at the very heart of all these interactions. With more than 2,500 colleagues, a network of global partners, and customers in over 150 countries, it's no wonder the world's most entrusted organizations trust us.