



CRYPTOMATHIC



Solution Brief

An integrated PKI solution for Remote Qualified Electronic Signatures

Powered by Cryptomathic and PrimeKey

Enhance your online customer journey with remote Qualified Electronic Signatures using Cryptomathic Signer and PrimeKey PKI technology

The best way to deliver electronic signatures across different channels is to use remote signing technology. It integrates smoothly with any web application and does not require any software install, plug in or additional components and can be used anywhere at any time from any device with browsing capacity.

Cryptomathic Signer technology, combined with PrimeKey EJBCA Enterprise, offers a unique signing experience which can leverage existing strong authentication techniques. The signing solution is certified for the issuance of Qualified Electronic Signatures according to the eIDAS regulation. The joint offering brings the eIDAS remote signing ecosystem together in one easy-to-deploy solution, and can add significant value to existing online services, such as ebanking or document management systems. Client's can now offer an end-to-end digital service with legally binding user consent, while reducing costs, increasing security and offering greater confidence in transactions.

Cost-effective scalable deployment

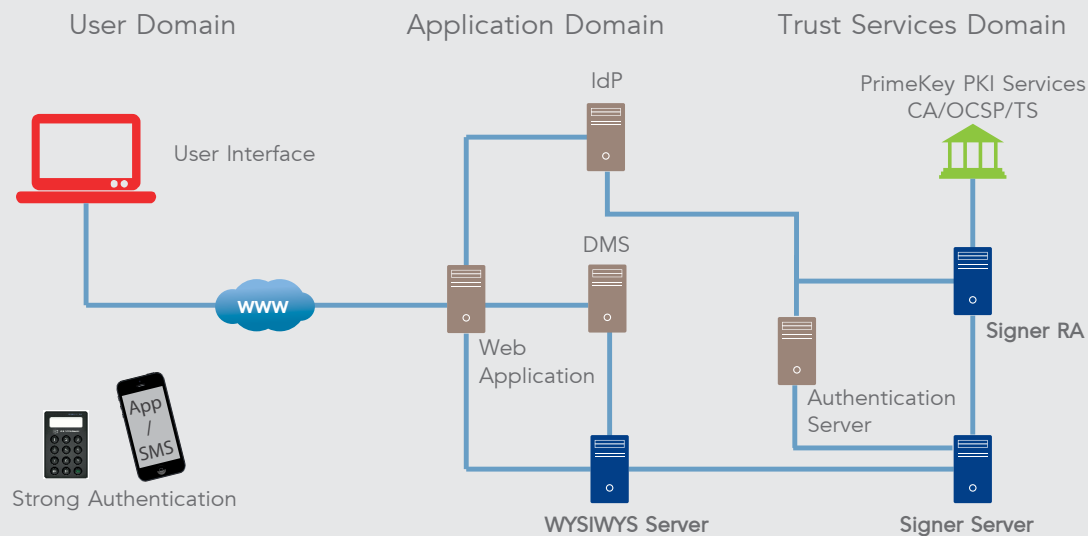
The remote signing solution is designed to be most cost-effective for large scale, on-premise deployments that can leverage an organization's existing KYC and authentication processes.

Solution benefits

- ✓ **Offer the complete digital customer journey** with legally binding consent through remote Qualified Electronic Signatures
- ✓ **Protect sensitive transactions** with authenticity, integrity, and non-repudiation capabilities
- ✓ **Improve the user experience** by simplifying the signing process for documents and transactions
- ✓ **Reduce initial and operational costs** in contract or transaction signing with no need for additional hardware — simply use the existing 2FA mechanisms to let users sign
- ✓ **Demonstrate non-repudiation** with WYSIWYS functionality
- ✓ **Comply with Swiss and EU regulations**; ZertES, GwV and eIDAS
- ✓ **Go green** with an environmentally friendly solution that allows end users to electronically sign banking documents and reduce paper consumption for all parties

How the solution works

The complete solution incorporates **Cryptomathic** and **PrimeKey** products to provide a comprehensive and integrated remote signing and PKI solution to our clients. The high-level architecture is illustrated below.



When a document needs signing, it is securely rendered in the user's browser through Cryptomathic's WYSIWYS technology, ensuring that only the authentic document can be signed. PrimeKey EJBCA Enterprise provides the secure digital identity and PKI services, including one-time and long-term certificates, that are used by Cryptomathic Signer to sign the document and then return it to the business application.

Cryptomathic Signer

Cryptomathic Signer is a remote signing solution, incorporating Cryptomathic's eIDAS certified Qualified Signature Creation Device (QSCD), which helps organizations provide large scale, legally binding digital signature services to clients and end-users. Used by banks and government departments processing millions of transactions each month across Europe, the solution combines strong security with user convenience by using "what you see is what you sign" (WYSIWYS) technology that provides non-repudiation and enhances consumer trust.



PrimeKey EJBCA Enterprise

EJBCA Enterprise is designed for a multipurpose PKI solution which is highly scalable, and enables management of several parallel PKI hierarchies within the same deployment. EJBCA relies on widely used standard protocols enabling support for many different platforms, environments, and use cases. Supporting issuance of both machine-, device-, and personal certificates, EJBCA can be used for securing both digital and physical resources. The EJBCA Certificate Authority, Validation and Time-stamping services can be deployed as an appliance with an embedded HSM, standard software or in the cloud.



About Cryptomathic

Cryptomathic is one of the world's leading providers of security solutions to businesses across a wide range of industry sectors, including finance, smart card, digital rights management and government. Cryptomathic is the world's most experienced player in remote signing and WYSIWYS. We are the technology providers of many nation-wide central signing deployments and are very active in the finance industry as well, enabling eBanking portals with digital signature technology.

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About PrimeKey

One of the world's leading companies for PKI solutions, PrimeKey Solutions AB has developed successful technologies such as EJBCA Enterprise, SignServer Enterprise and PrimeKey PKI Appliance. PrimeKey is a pioneer in open source security software that provides businesses and organisations around the world with the ability to implement security solutions such as e-ID, e-Passports, authentication, digital signatures, unified digital identities and validation.

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