swisscom

Enhance Qualified Electronic Signatures with What You See Is What You Sign

QES and WYSIWYS Service - Powered by Cryptomathic and Swisscom

Qualified remote signing and WYSIWYS - hosted eID services

The best way to deliver Qualified Electronic Signature (QES) services 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. Qualified remote signing provides the highest legal value and international acceptance, while *What You See Is What You Sign* (WYSIWYS) technology delivers a seamless user experience with strong non-repudiation. Combining QES with WYSIWYS is a strong enabler for businesses to provide ultimate security, trust and convenience with online transactions. This is exactly what the Cryptomathic – Swisscom solution offers, namely the possibility to offer Advanced or Qualified Electronic Signatures using a zero-footprint remote signing hosted service, featuring WYSIWYS functionality.

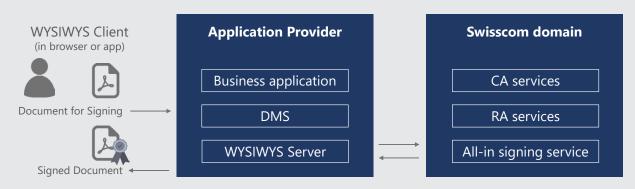## Non-repudiation and convenience

Non-repudiation is critical for maintaining security and trustworthiness for online business. The WYSIWYS technology ensures that users can be confident that what they see on their screen hasn't been tampered with and that only an authentic document from the business can be signed. WYSIWYS combined with audited security protocols provides strong evidence in a court of law of the authenticity of a signature and its origin. Users can thereby sign legally binding documents or transactions from any connected device wherever they are - providing the best combination of security and user convenience.

Solution benefits

- ✓ **Offer Advanced or Qualified Electronic Signatures** compliant with the Swiss signature law, ZertES, and the EU eIDAS regulation on trust services.

- ✓ **Improve the users' signing experience for all channels** incl. web portals, desktop applications, mobile & tablet platforms

- ✓ **Demonstrate unrivalled non-repudiation** with WYSIWYS funcionality

- ✓ **Eliminate smartcards, card readers and local software install**

- ✓ **Solve data privacy problems** as the document remains in the domain of the application provider.

- ✓ **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

- ✓ **Go green** by enabling end-users to digitally sign documents and transactions, thereby reducing paper consumption for all parties

How the solution works

The solution incorporates Swisscom's SaaS *All-in Signing* services with Cryptomathic's WYSIWYS technology to reduce risks while enhancing security and convenience. See high-level architecture 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. The only integration point for the Application Provider is the WYSIWYS server. For compliance to privacy requirements, the document never leaves the Application Provider domain, as only the hash value is exchanged between the WYSIWYS Server and Swisscom's remote signature service. All JavaScript libraries required by the WYSIWYS Client to perform a signature process with Swisscom All-In Signing service are hosted within the Cryptomathic WYSIWYS Server.

Cryptomathic WYSIWYS Server

Cryptomathic's WYSIWYS Server is a web application which provides the zero-footprint interfaces to the user´s browser or app, to deliver the WYSIWYS over a trusted viewer and perform document signing using Swisscom All-in Signing service. The WYSIWYS Server is integrated in the application provider domain. This allows for full data privacy and enabled to tightly integrate the signing experience with an existing business workflow to ensure high user acceptance. The WYSIWYS Server supports input data in PDF or XML and outputs signed data with PAdES and XAdES signature profiles, also including LTA, which is the recommended signature profile for archived files. It handles PDF manipulation, conversion and renders images of the PDF/XML data that are displayed in the WYSIWYS Client.

Learn more at cryptomathic.com/signer

Swisscom All-in sigining service

The All-in Signing Service is a cloud service that allows you to electronically sign and timestamp documents and files in a legally compliant manner. Secure user signature initiation takes place using a mobile ID with capable Swiss SIM cards or 2-factor authentication via SMS, thus guaranteeing maximum user acceptance. Applications and portals benefit from running a highly available and secure signing service. You also benefit from Swisscom expertise as a legally recognised Trust and Certificate Service Provider (TSP/CSP). The service can be used for digital signatures in all EU/EEA countries and Switzerland, regardless of where the organisation is registered. This means that non-EU companies can also use the service for online transactions within the EU legal framework.

Learn more at www.swisscom.ch/signing-service/