

# CryptoServer and Sealing Server for eIDAS Qualified Local Mass Sealing

Sealing of up to 11 million documents per hour with Utimaco's HSM as a QSCD

## About SIGNIUS

SIGNIUS delivers a comprehensive suite of eIDAS-compliant, cutting-edge solutions for trusted services. Our offerings include on-premise, hybrid, and cloud-based software for electronic signatures and seals, tailored to meet the needs of individuals and businesses of any size.

For more information, visit [signius.eu](http://signius.eu)

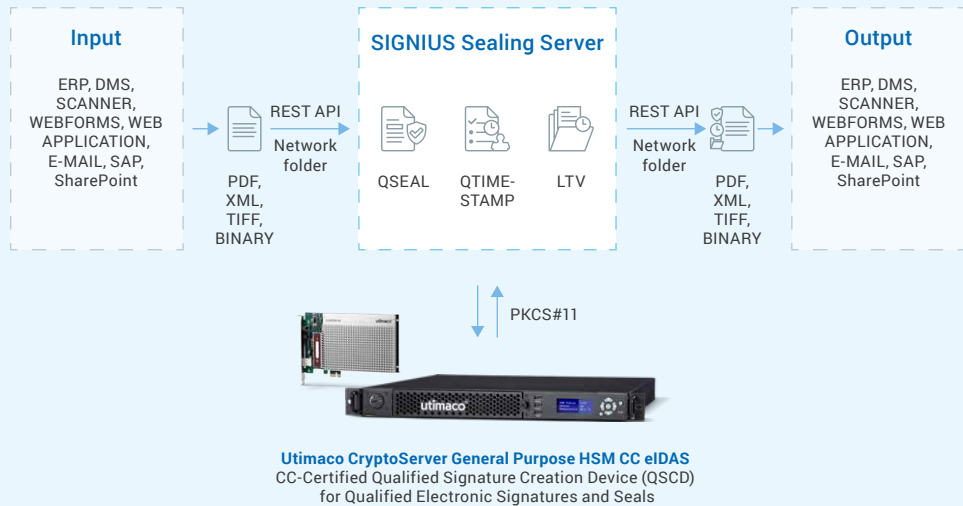
## Challenge: Finding an on-premise, qualified and high-performance solution

**eIDAS compliance**  
Requires a Qualified Seal Creation Device certified to EN 419221-5, and compliant with eIDAS (EU) Regulation 910/2014.

**Remote identification**  
Remote identity verification of the organization's legal representative is mandatory for the application process for the organizations' Qualified Seal.

**Sealing Server**  
For a turnkey solution for qualified sealing of documents, a high performance and versatile Sealing Server can be provided in an on-premises, hybrid or cloud deployment model.

## The Sealing Process



## Qualified Local Mass Sealing

Qualified Local Mass Sealing (QLMS) is a comprehensive solution that enables you to digitally sign up to 11 million documents per hour. The on-premises solution is using Qualified Electronic Seals that are compliant with the electronic Identification, Authentication, and Trust Services Regulation (eIDAS). It is an ideal solution for mass document or data processing with a high degree of automation.

Enterprises, financial, administrative, and healthcare organizations operating their own datacenters can implement local QLMS for high performance sealing processes, for example, the sealing of order confirmations, invoices, prescriptions, digital account statements, official certificates, hospital patients' records, etc. as well as for authenticating account access for FinTechs according to PSD2 (Payment Services Directive 2).

SIGNIUS offers a turnkey solution built on the Utimaco QSCD, featuring a Qualified Electronic Seal (QSeal) and sealing server. The comprehensive package includes expert training, along with long-term maintenance and support services to ensure seamless operation.

The solution supports existing legacy processes based on TIFF (single- and multi-page), as well as current and future-proof XAdES, PAdES, and CAdES formats.

## Benefits



Unlimited sealing of documents



Flexible integration



eIDAS certified QSCD



Highest security



Non-repudiation



Long-term archiving

## Reliable, high-performance Qualified Local Mass Sealing

Equipped with Utimaco's General Purpose HSM, SIGNIUS' solution for Qualified Local Mass Sealing can process up to 3,300 operations per second with a 2048-bit RSA key.

### Unlimited sealing of documents

Enabling mass sealing with over 30 million signatures per hour. No volume-based fees charged by Trust Service Provider.

### eIDAS certified QSCD

CryptoServer General Purpose HSM CC eIDAS serves as a tamper-proof, eIDAS-compliant Qualified Signature Creation device (QSCD).

### Non-repudiation

Confirmed authenticity and guaranteed integrity.

### Flexible integration

Can be integrated with existing signature solutions and supports for various Document Management, CRM and ERP systems.

### High security

On-premises setup guarantees highest level of privacy and compliance with GDPR.

### Long-term archiving

Legal compliance recognized in the EU and beyond and suitable for long term archiving and Qualified Time Stamping upon request.

## Qualified Electronic Signatures and Seals

A Qualified Electronic Signature is the electronic signatures issued to a natural person. According to eIDAS regulations, Qualified Electronic Signatures (QES) – in contrast to simple (such as scanned written signature) and 'Advanced' signatures – offer the highest assurance and security levels. A QES has the equivalent legal effect of a handwritten signature.

A Qualified Electronic Seal is issued to and used by legal persons to ensure the origin and integrity of data and documents. A legal person is commonly understood as a legal entity, i.e. a company, enterprise, association and public authority.

When combined with Qualified Time Stamps, digitally signed documents offer the highest level of assurance for non-repudiation, authenticity, and integrity.

## Free, fully functional HSM simulator

Test development and integration capabilities of the CryptoServer General Purpose HSM CC eIDAS in your environment – no purchase, delivery, or installation needed.



<https://utimaco.com/resources/simulators-and-sdks/cryptoserver-cp5-simulator-eidas-cc>



Utimaco CryptoServer General Purpose HSM CC eIDAS version as CC-certified Qualified Signature Creation Device (QSCD) for Qualified Electronic Signatures and Seals

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