IDTHRIVO
TECHNOLOGY

eIDAS THRIVOSIGN
REMOTE SIGNING SOLUTION

FOR ENTERPRISE USE

eIDAS THRIVOSIGN
REMOTE SIGNING SOLUTION

Secure, Reliable, and Trustworthy System: Ensuring Confidence in Digital Signatures

ThrivoSign Remote Signing Server (T-RSS) provides secure remote signing with customizable features, robust security, and scalability, ensuring digital document and transaction integrity for organizations' needs.

The eIDAS Regulation introduces remote signing as a new use case, thereby centralizing keys and signing certificates on a server while ensuring that the signer maintains exclusive control of the signing key.

THRIVOSIGN REMOTE SIGNING SERVER(T-RSS)

ThrivoSign Introduction

ThrivoSign is an advanced eIDAS Digital Signing Platform designed to redefine online transaction security and elevate digital trust in the contemporary cyber-centric landscape. ThrivoSign stands at the forefront of innovation, offering a comprehensive solution to meet the evolving needs of secure and trustworthy digital transactions.

eIDAS Introduction

eIDAS, or Electronic Identification, Authentication, and Trust Services, represents a comprehensive regulatory framework in the European Union. This initiative aims to establish a secure and standardized foundation for electronic transactions, digital signatures, and online identity verification, fostering trust and interoperability across member states.

Why We Build?

We build to meet the urgent need for a secure and trustworthy digital environment in the era of digital nations. Our advanced eIDAS Digital Signing Solution addresses critical challenges, ensuring the safety of digital interactions and contributing to the success of the Digital Nation initiative.

Our on-premises software aligns with European standards, including:
CEN EN 419 241-1: Trustworthy Systems Supporting Server Signing
– Part 1: General System Security Requirements
CEN EN 419 241-2: Trustworthy Systems Supporting Server Signing
-Part 2:Protection Profile for QSCD for Server Signing
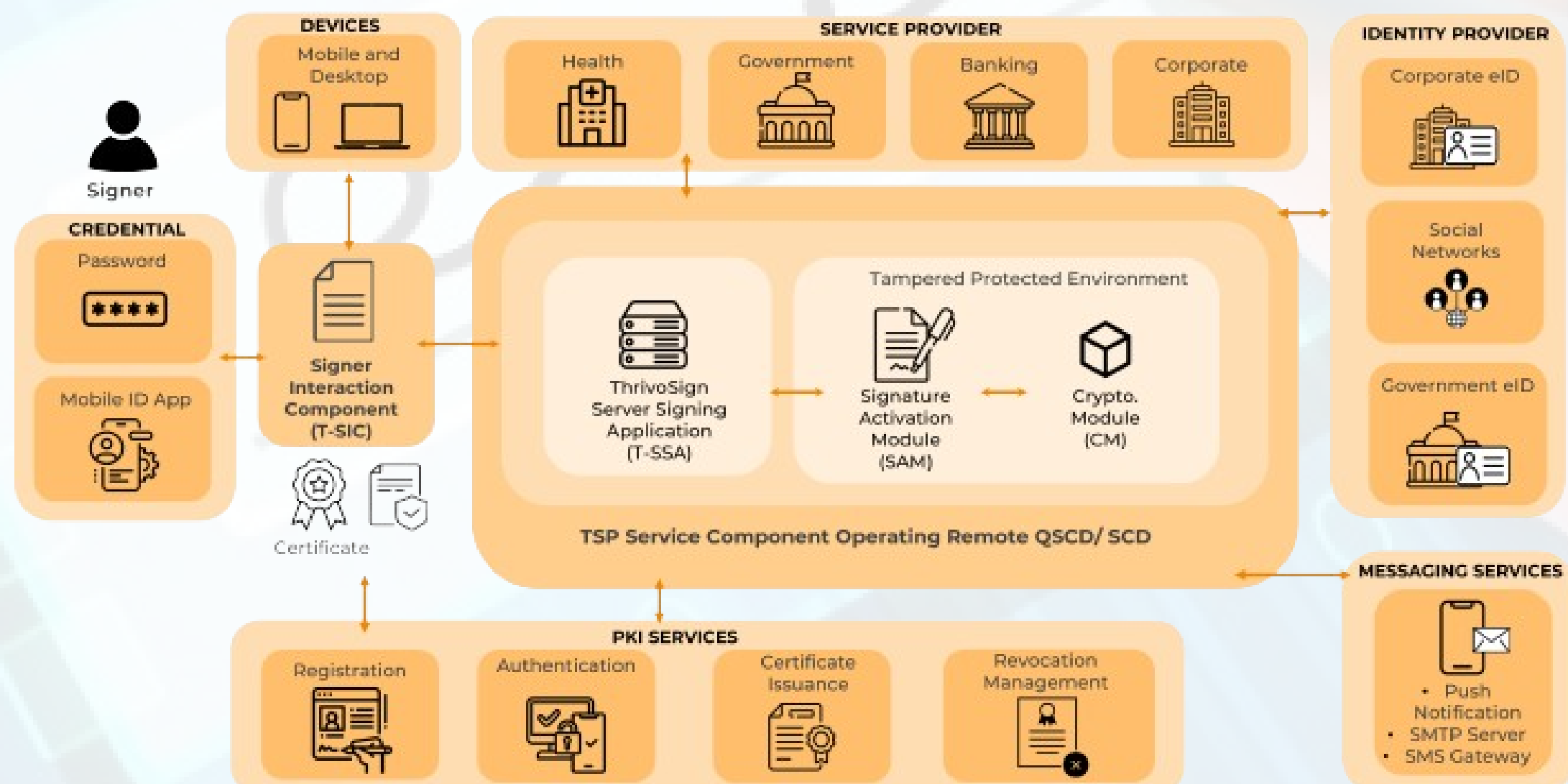CEN TS 419 221-5: Protection Profiles for TSP Cryptographic Modules

Diagram 1.0

THRIVOSIGN REMOTE SIGNING SERVER (T-RSS)

HIGHLIGHTS

Why Choose ThrivoSign for Your Certificate Authority (CA)?

Perfect Fit :
Tailored for CAs, ThrivoSign streamlines document signing with precision.

SAM Security :
Integrates with Signature Activation Modules (SAM) for robust document protection.

Controlled Interactions :
The Signer Interaction Component (SIC) empowers CAs to manage signer interactions accurately

Push Verification Authentication :
Elevate security further with Push Verification Authentication, ensuring only authorized personnel access and sign documents.

Simplified Compliance :
ThrivoSign ensures compliance without complexity.

eIDAS CSC Compliance :
ThrivoSign adheres to eIDAS CSC standards, providing secure and compliant cloud- based digital signatures.

Smart Integration :
ThrivoSign seamlessly integrates with your systems, facilitating an effortless implementation that optimizes your signing processes.

KEY FEATURES

Move to digital signing with agility

Workflow-Agnostic :
We provide direct integration with document and signature management solution.

Proven Technology and Standards :
The service is based on globally recognized PKI technology and CSC remote signing protocols

eIDAS Qualified Signing :
ThrivoSign is a qualified trust service provider and can issue eIDAS qualified certificates or qualified signatures. No compromise on security

Time Stamping :
Guarantee the exact date and time of signing with a trusted timestamp from ThrivoSign

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PRODUCT BENEFIT

WHY T-RSS?

PKI SERVICES

T-RSS integrates with PKI services, providing signing certificates to users and improving signature creation. It includes EJBCA for CA functions, OCSP server, and TSA for timestamp authority, ensuring thorough certificate lifecycle management.

CLOUD SIGNATURE CONSORTIUM

Strengthened trust, compliance through robust security, fraud mitigation, digital alignment, and EU e-signature regulation adherence enhance overall business security.

SIGNATURE ACTIVATION MODULE

A signature activation module manages cryptographic keys and algorithms, ensuring secure authentication and signing of digital documents or transactions.

- EJBCA integration streamlines user lifecycle management for efficient issuance to revocation.
- T-RSS provides user-friendly interfaces for seamless certificate management, boosting security and resource use.
- Robust PKI integration safeguards transactions and data, preventing unauthorized access.
- Seamless PKI integration optimizes certificate management, conserving resources.
- T-RSS ensures secure digital transactions, prioritizing operational integrity and compliance.

- The CSC sets global standards for eIDAS-compliant cloud signatures. T-RSS offers APIs for remote signing, connecting SIC and RSSP Endpoint. Remote Signing Services API aligns with CSC's V2.0.0.2 specifications, widely supported by Consortium members.

- T-RSS integrates with SAM, enhancing security and compatibility while streamlining activation processes and signing workflows, fortifying signature activation with robust security measures for diverse systems.

PRODUCT BENEFIT

SIGNING SERVER APPLICATION

Sign documents effortlessly in your browser with a user-friendly interface, prioritizing security, customization, instant access, real-time collaboration through SIC, and user- controlled interactions.

API

Introducing our Signing API for seamless digital document signing, ensuring security, compliance, detailed logs, and comprehensive integration documentation.

VCSP

T-RSS Virtual Cryptography Service Provider (V-CSP) is a specialized Microsoft Windows plug-in designed for digitally signing documents within desktop applications using the Remote Signing Service (RSS).

- T-RSS incorporates a Server Signing Application (SSA), facilitating secure document signing directly from the server environment, enhancing efficiency, reliability, and robust document security for users.

- Optimize T-RSS API to enhance communication among diverse software systems. As a conduit for data and functionalities, the API fosters smoother interoperability and integration, enriching capabilities for seamless software interaction.

- V-CSP empowers RSS-enrolled users to digitally sign documents through their preferred desktop applications, ensuring smooth operation while maintaining the integrity and security of digital signatures.

INTEGRATION

ThrivoSign Remote Signing Server revolutionizes document signing with user-friendly JSON/REST APIs, bolstering security via OAuth 2.0 authorization. It offers an efficient, secure solution for modern signing processes

- **Authorization API:** Grants access tokens for API invocation, ensuring controlled data access through tailored user consent and administrative permissions.

- **SAM & HSM Connector:** Enhances security via cryptographic functions for key management and protection, integrating SAM & HSM.

- **User Account Management API:** Facilitates creation, linkage, and maintenance of user accounts from federated identity providers.

- **Enrollment API:** Manages user signature certificates' lifecycle, coordinating with configured PKI services for registration, issuance, and revocation.

- **Certificate Management API:** Streamlines creation, listing, and deletion of user certificates, ensuring meticulous lifecycle management for enhanced security.

- **Device Management API:** Efficiently handles user mobile device registration, listing, and deletion for signature activation through the Remote Signing Server.

- **Document Signature API:** Empowers users to create compliant digital signatures adhering to PAdES, XAdES, and CAdES standards.

- **Workflow Manager:** Optimizes signing experiences through browser and mobile app interfaces, ensuring seamless workflows and accessibility.

- **Digital Signature API:** Generates secure digital signatures based on the PKCS#1 standard, reinforcing privacy and data integrity.

- **Signature Validation API:** Validates document integrity, signer certificate validity, and chain completeness, providing detailed error reporting for robust security.

Identity Provider

Service Provider

Authentication Server

Sign Easily From Your Browser!

No extra software needed! Sign remotely with ease and a consistent experience across devices. Just log in or authenticate when prompted in our web app. Your experience depends on:
- Our service provider (the app operator)
- TSP (ThrivoSign Remote Signing Server)
- Authentication options
- Choice of signing keys
- Visual signature preferences

Mostly, just confirm agreement, and our app handles the rest. View signed docs in your browser or download the document! Simplify your signing process today.

PRODUCT FEATURES

Features / Plan	Standard	Advanced	Custom
ThrivoSign-RSSP			
Web Manager	•	•	•
RSSP Signing API		•	•
Android Version SIC		•	•
iOS Version SIC		•	•
Sign Hash		•	•
Unlimited Signing		•	•
Multiple Languages		•	•
Integrated with HSM + SAM Module		•	•
ThrivoSign-Signing API			
Workflow REST API	(Optional)	•	•
PDF Signing REST API	(Optional)	•	•
XML Signing REST API	(Optional)	•	•
Embedded Signing API	(Optional)	•	•
Web Signing	(Optional)	•	•
ThrivoSign-SSA			
Workflow Manager		•	•
Decline To Sign		•	•
ThrivoSign Mobile Signer			
Mobile Signer iOS		•	•
Mobile Signer Android		•	•
Certifications			
eIDAS		•	•
ThrivoSign-Customisation eKYC Integration			
Project Management Package			•
Web Interface customization			•
Mobile App Interface for Android			•
Mobile App Interface for iOS			•
ThrivoSign-Professional Services			
Products Training	•	•	•
Products Deployment	•	•	•
Security	•	•	•
User Training (Developer)	•	•	•
ThrivoSign-Customization			
Project Management Package (System Analysis & Design + Training)	•	•	•
Software Interface UI/UX	•	•	•
Mobile App Interface for Android and iOS	•	•	•
Others (UAT & Documentation)	•	•	•

Contact Us

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