All purpose Digital Signing Service

Introduction

In today's interconnected world, the significance of digital communication cannot be underestimated. As technology advances at an unprecedented pace, what was once deemed science fiction has become a reality in the AI-enabled realm of the internet. However, with this technological evolution comes the escalating threat landscape of the internet, making it imperative to ensure the authenticity and integrity of digital documents and email communications exchanged between individuals and organizations.

In this context, organizations require a reliable and secure method for signing documents, particularly when traditional paper-based approaches prove impractical. **xorkeesign** effectively addresses this need by providing a user-friendly and cost-effective digital signature service, accessible through smartphones. Developed by Odyssey Technologies Limited, **xorkeesign** stands as an all-encompassing digital signing service that revolutionizes the way organizations establish ownership, ensure data integrity, and establish non-repudiation for various functional and process documents—all while adhering to the legal framework and complying with PKI standards.

Benefits

- Digitally Sign from Mobile Device (Android / iPhone / Tablet / iPad)

- All employees' signatures attested by one organization certificate

- Email signing – A pioneering digital-first solution

- No dependency on Crypto token drivers / Java / .Net / web services

- No compromise of user privacy - documents/forms remain privately in user's system

- Style your signatures on PDF

- Various mode of signing – Portal based, API based and file / folder-based signing

Solution Overview

The advent of **xorkeesign** has shattered the long-standing myth surrounding the complexity of PKI and digital signatures, debunking the notion that secure digital signing is inherently intricate. Although these complexities still exist in many signing solutions in the market, **xorkeesign** stands out by introducing a vastly superior, user-friendly, and streamlined approach. It has redefined the landscape, proving that complexity is no longer a barrier to adopting digital signatures. Imagine digitally signing documents using your mobile device or tablet! Yes, this is possible through **xorkeesign**!

High-assurance Digital Signatures at your fingertips

xorkeesign is designed as all-purpose digital signing service that allows users to digitally sign documents to establish ownership, data integrity and accountability for various functional / process documents in an organization; like E-mails, agreements, NDAs, employee offer letters, sales contracts, invoices, approval forms, asset management forms, etc.

No more juggling crypto tokens or managing complex and over-priced solutions. Since **xorkeesign** enables an organization to store its qualified digital certificate in the Luna PCIe Hardware Security Module (HSM) of Thales and use that to attest the attributes and signatures of its employees, you get all the benefits of trusted and compliant digital signatures without the hassle of managing digital certificates individually.

VERIFIED SOLUTION

THALES

The xorkee app offered by Odyssey, works with Luna HSM to use the key in the HSM for signature operations. The digital signature service enables an organization's digital transformation and enhances their digital presence by using a Qualified CA issued Digital Signing Certificate (DSC) in Thales Luna HSM. The Organization's private key is securely stored in the HSM.

Workflow Diagram

An illustration of the workflow is shown below for reference –
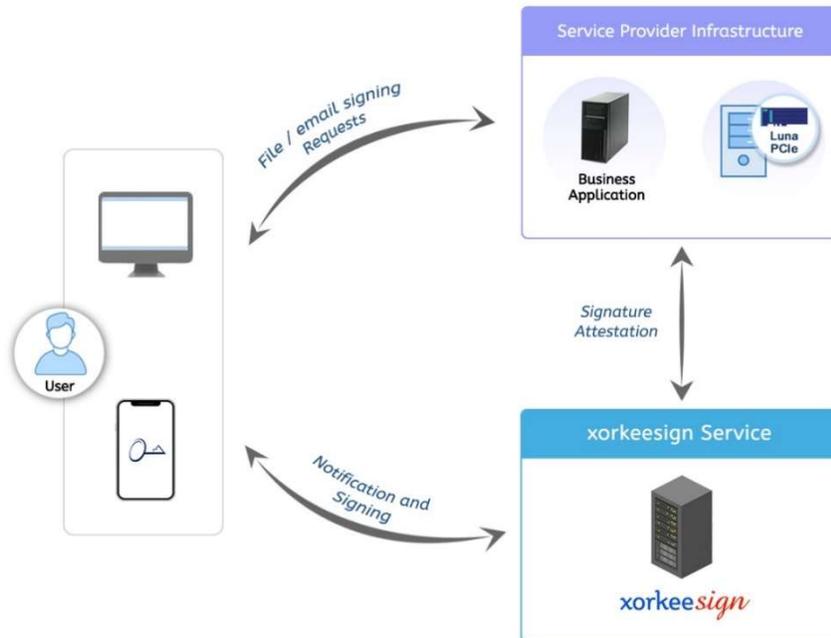
How it works

➢ **Document Signing**

- The authorized employee selects the document to be signed, accessible from their desktop, laptop, tablet, or mobile device.
- The user may use their workflow application integrated with xorkeesign or directly login to xorkeesign portal to upload the document, initiating the signing process.
- Upon approval, the document is digitally signed using the user's key and is further attested by the organization's certificate hosted in the HSM.

   The digitally signed document includes signature of the individual along with organization defined attributes like name, designation, role, etc., all of which are co-signed by organization certificate.

➢ **E-mail Signing**

- Install the xorkeesign email extension in the email client (supported in Microsoft O365, Mozilla Thunderbird, Roundcube).
- Draft your email and click "Send".

- Approve the signing notification in your mobile phone or tablet. The email gets digitally signed by the user's key stored in the secure area of the mobile phone and gets co-signed by the organization certificate if the user is part of the organization entity. All this in less than few seconds.

The recipient can use the same xorkeesign email extension for verification of a signed email (supported in Microsoft O365, Mozilla Thunderbird, Roundcube, Gmail).

Business Use cases

xorkeesign can be used in every vertical where authentication, authorization, user consent, non-repudiation, data integrity is required.

Marketing
- Event Registration
- Customer Communication Approvals
- Mass Mailing / Email Approvals

HR
- New Hire Paperwork
- Candidate NDA
- Employee Policy Distribution and Signature
- Contractor Agreements

Finance
- Invoice Processing
- Expense Reporting
- Audit Signoff
- Policy Management
- Inventory Signoff
- Asset Transfer

IT / Operations
- Asset Tracking
- Change Requests
- Requirements Sign Off
- Access Management
- Incident Reporting
- Production Change Authorization
- Maintenance Authorization

Legal
- Contracts
- Non Disclosures
- Internal Compliance
- Intellectual Property Licensing
- Outside Counsel Agreements

Sales
- Sales Order Processing
- Customer Account Provisioning
- Special Deal Terms
- Partner Agreements
- Referral Agreements
- Reseller Agreements

Facilities
- Front Desk Sign-in
- Work Orders
- Lease Agreements
- Move In / Move Out Requests
- Parking Permits

Product Management
- Change Management
- Release Management
- Code Review Reporting
- Requirements Acceptance
- Release Scope Commitment

Procurement
- Purchase Order
- Statement Of Work
- Master Service Agreement
- RFP Sign Off
- Supplier Compliance

Medical
- Prescriptions
- Health Records
- Patient registration
- Lab reports
- Forms and bills

Thales Luna PCIe HSM Integration

Thales Luna PCIe HSMs play a pivotal role in safeguarding sensitive keys and digital certificates within a tamper-resistant device. Harnessing the power of this cutting-edge HSM feature, Odyssey seamlessly integrates **xorkeesign**, offering a comprehensive and secure solution to our valued customers. By storing an organization's qualified digital certificates and private keys within the Luna PCIe HSM, we elevate the security standard, ensuring unparalleled protection against threats and business compromise. It's not just a safeguard, it's imperative for every forward-thinking enterprise looking to fortify its digital assets.

About Odyssey Technologies

Odyssey Technologies is a public company located in South India pioneering in development of software for Public Key Infrastructure (PKI), Digital Signatures and Authentication for close to three decades. Odyssey's stack of software applications is developed using world-class encryption algorithms and protocols with strict adherence to International Standards governing cryptography and PKI.

Strong customer focus, domain neutral innovative products, zero-touch deployment models have helped the Company to serve over 500 customers across India and neighbouring countries, including large Banks, financial institutions, corporates of various verticals, Government establishments and Certifying Authorities.

More information on the products and solutions can be found on www.odysseytec.com