

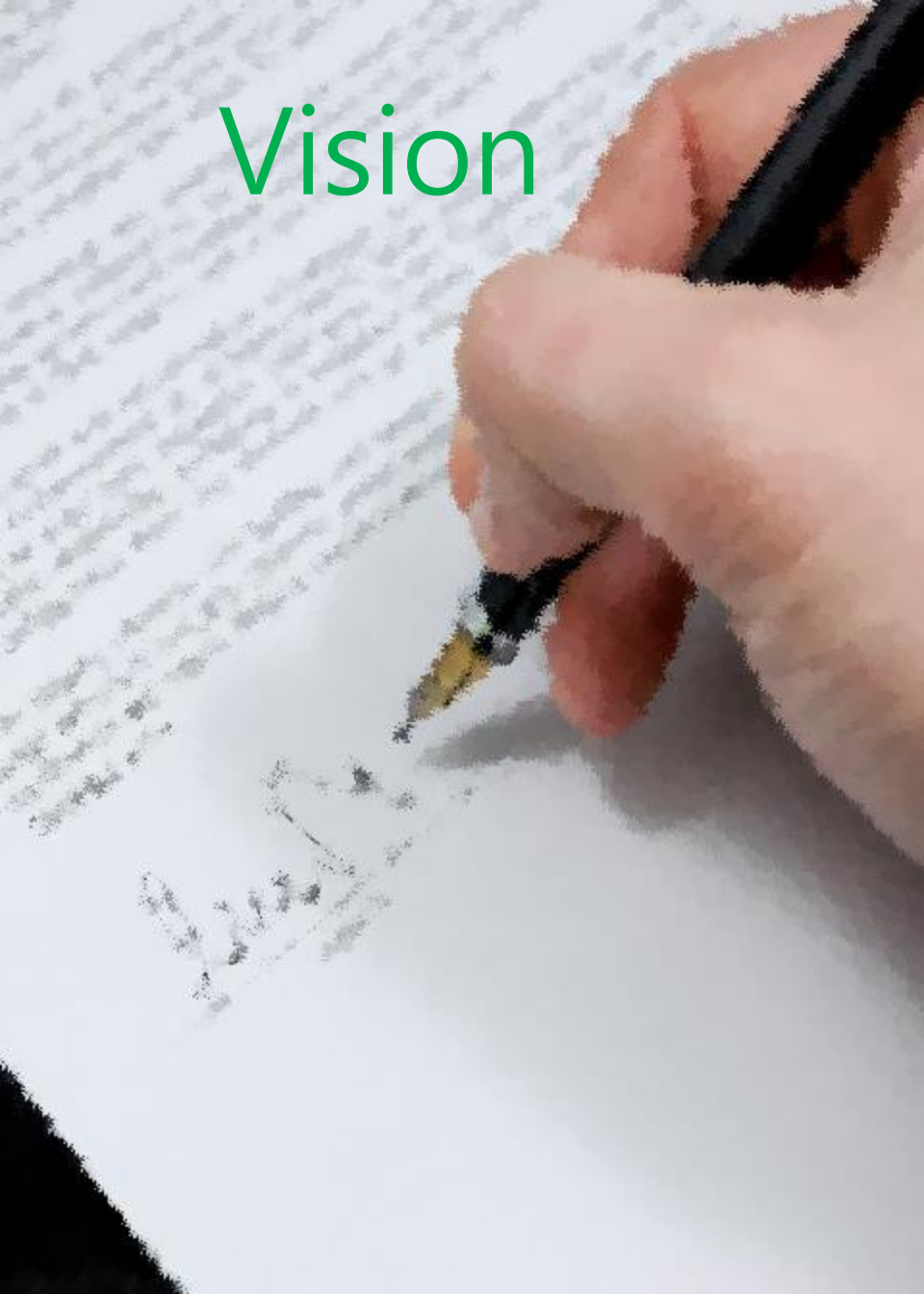


codegic

Secure, Powerful
Document Signing
Solutions via
KhatimDoc,
Khatim Sign Server

MUHAMMAD WAHAJ KHAN,
CEO, CODEGIC

Vision



1. Eliminate paper-based processes; Sign electronically
2. Revolutionize authentication in the digital realm
3. Utilize the concept of Digital Signatures


What is a Digital Signature?



- In the digital age, ensuring the **authenticity** and **integrity** of digital documents is crucial
- Digital signatures provide a secure & reliable method for verifying the **identity** of the signer & **integrity** of digital documents
- **Legal** in many parts of the World

Combating Climate Change

- Pulp and paper industry contributed around **190 Mt of CO₂ emissions**, representing **2%** of total industrial emissions (2021) and reaching an all-time high: [Pulp and Paper – Analysis – IEA](#)
- **Human activities caused a 1.1°C temperature** rise (2011-2020 compared to 1850-1900), resulting in frequent and hazardous weather events causing destruction: [UN Climate Change 2023: Synthesis Report](#)
- **KhatimDoc & Khatim Sign Server** digital signature solutions help save the planet



Solution – Benefits

KhatimDoc – Benefits

- **Cost saving – Prevents Paper Usage**
- **Built-In Workflow – No manual handling**
- **Save Time – Sign any time, any where**
- **Increased security – Encrypted documents storage (On-premise)**
- **Quick Tracking – See history, search by name or time**

Khatim Sign Server – Benefits

- **Cost saving** – Prevents Paper Usage
- **Long term** – Supports basic and advanced digital signatures
- **Compliant** – E-Sign Act, ETSI & eIDAS signature standards
- **Integrate** – Seamless integration with existing systems
- **Fast** – High Volume document signing

Product – Comparison

KhatimDoc

- User facing application
- User controlled documents
- Built in Document Viewer
- Built in Workflows
- Support PDF Signatures
- User assigned Digital ID
- Use eID Smart Cards/ Software / HSM

Khatim Sign Server

- Back-end application
- Business controlled documents
- No need for Document Viewer
- Business controlled workflows
- Support PDF, XML Signatures
- Corporate assigned Digital ID
- Use Software / HSM held keys

Both support Advanced Digital Signatures, Developer Integrations, Cross platform, Scalability & Reporting



Solution – Use Cases

KhatimDoc — Use Cases

Let users **Approve or Digitally Sign** documents such as:

- Work approvals
- Enrollment forms
- Contracts
- Leave / Consent forms
- Service Agreements
- NDAs



Khatim Sign Server – Use Cases

Digitally Sign business **XML** or **PDF** documents for **long term storage** & to allow quick tamper detection for:

- Bills / Contracts
- B2B transactions
- Enrollment forms / NDA
- Service Agreements
- Leave / Appraisal / Consent forms



Solution – Verticals



- Corporate
- Education
- Government
- Real Estate
- Health Care
- Telecom
- Legal
- Banking
- HR
- Logistics
- Engineering
- IT
- Retail
- Hospitality
- Construction
- Automotive

Corporate



- Sign sales agreements
- Sign employment contracts
- Sign non-disclosure agreements
- Sign service agreements
- Sign partnership agreements

Education



- Sign degrees
- Sign Enrollment forms
- Sign Financial aid forms
- Sign Consent forms

Government



- Sign permits
- Sign licenses
- Sign tax forms
- Sign registration documents
- Sign immigration paperwork

Real Estate



- Sign purchase agreements
- Sign deeds
- Sign rental agreements
- Sign property disclosures

Health Care



- Sign medical consent forms
- Sign patient records
- Sign treatment agreements
- Sign prescriptions

Telecom



- Sign customer consent forms
- Sign service agreements
- Sign customer agreements

Legal



- Sign legal notices
- Sign consents
- Sign waivers
- Sign disclosures

Banking & Finance



- Sign bills, bank statements
- Sign mortgage documents
- Sign investment contracts
- Interbank communication docs

Human Resources



- Sign contracts
- Sign leave requests
- Sign consent forms
- Sign performance evaluations

Logistics



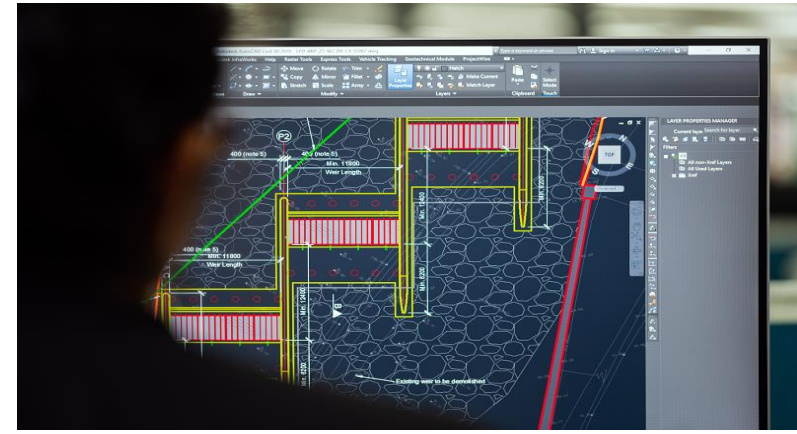
- Sign shipping confirmations
- Sign proof of delivery
- Sign transportation contracts
- Sign supplier agreements

Information Tech



- Sign software licensing agreements
- Sign service level agreements
- Sign non-disclosure agreements
- Sign development contracts

Engineering



- Sign design contracts
- Sign project approvals
- Sign subcontractor agreements
- Sign material procurement

Retail



- Sign supplier contracts
- Sign vendor agreements
- Sign sales & distribution contracts
- Sign procurement & purchase orders

Hospitality



- Sign guest check-In forms
- Sign event & meeting contracts
- Sign supplier agreements
- Sign employment contracts

Construction



- Sign construction contracts
- Sign subcontractor agreements
- Sign progress reports & inspections
- Sign bid proposals and estimates

Automotive

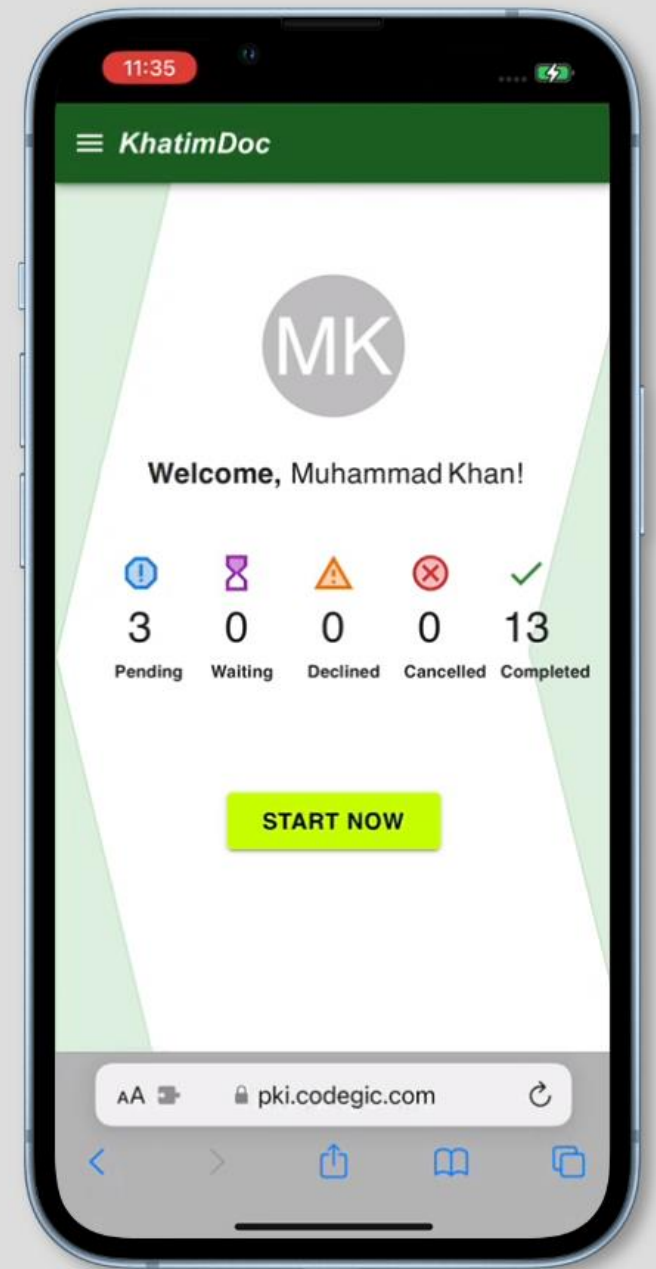
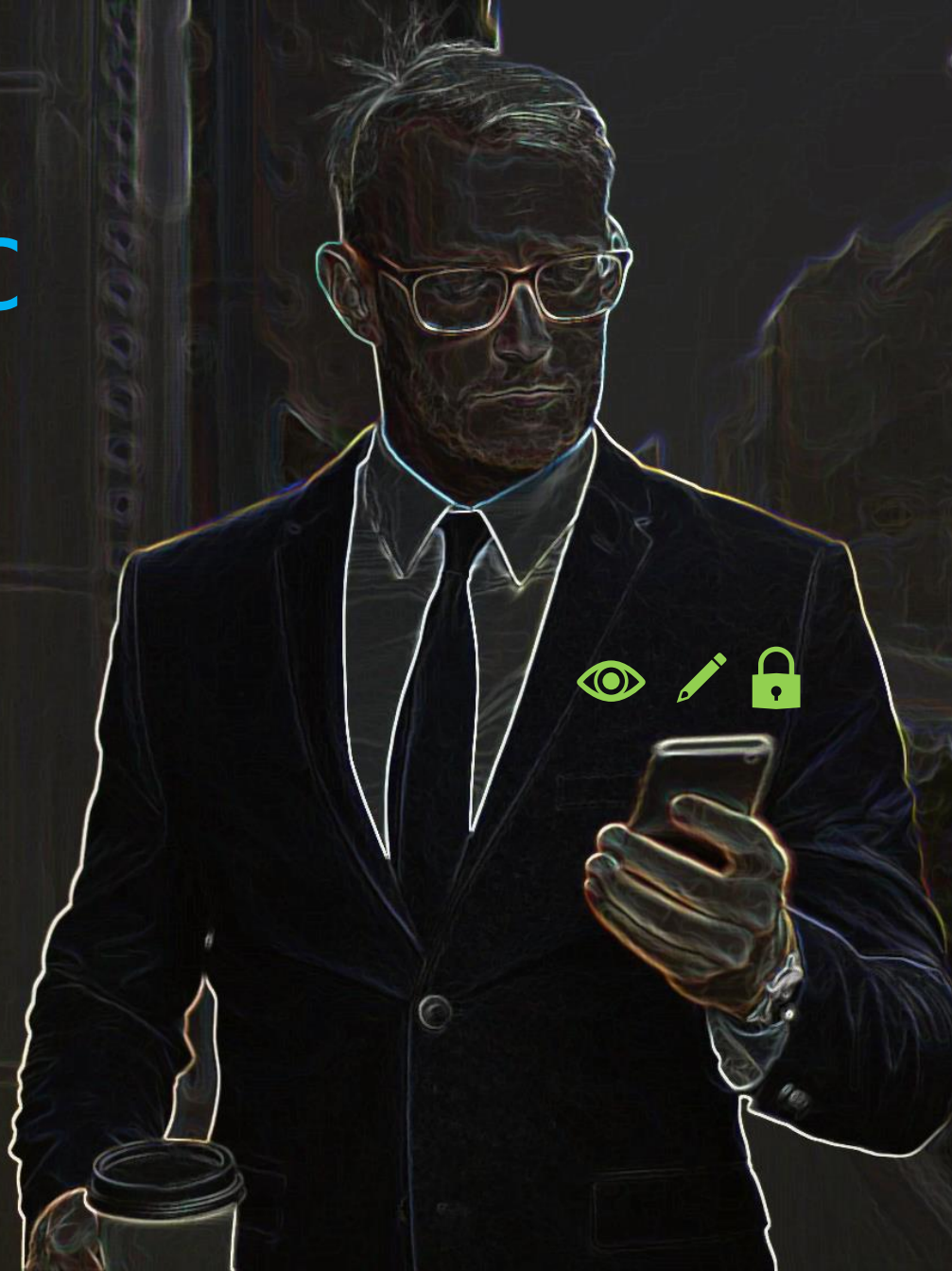


- Sign maintenance contracts
- Sign equipment procurement
- Sign dealership agreements
- Sign vehicle lease contracts



KhatimDoc

Under the hood



KhatimDoc – Core Features



- Fill Forms Online
- Create Workflows
- Create Templates
- Sign Digitally
- Sign with USB, Smart Cards
- Automate Processes
- Integrate with ECM, CRM
- **ISO 14533-3:2017 (PAdES)**
- Secure Document Storage

Solution – Comparison

KhatimDoc

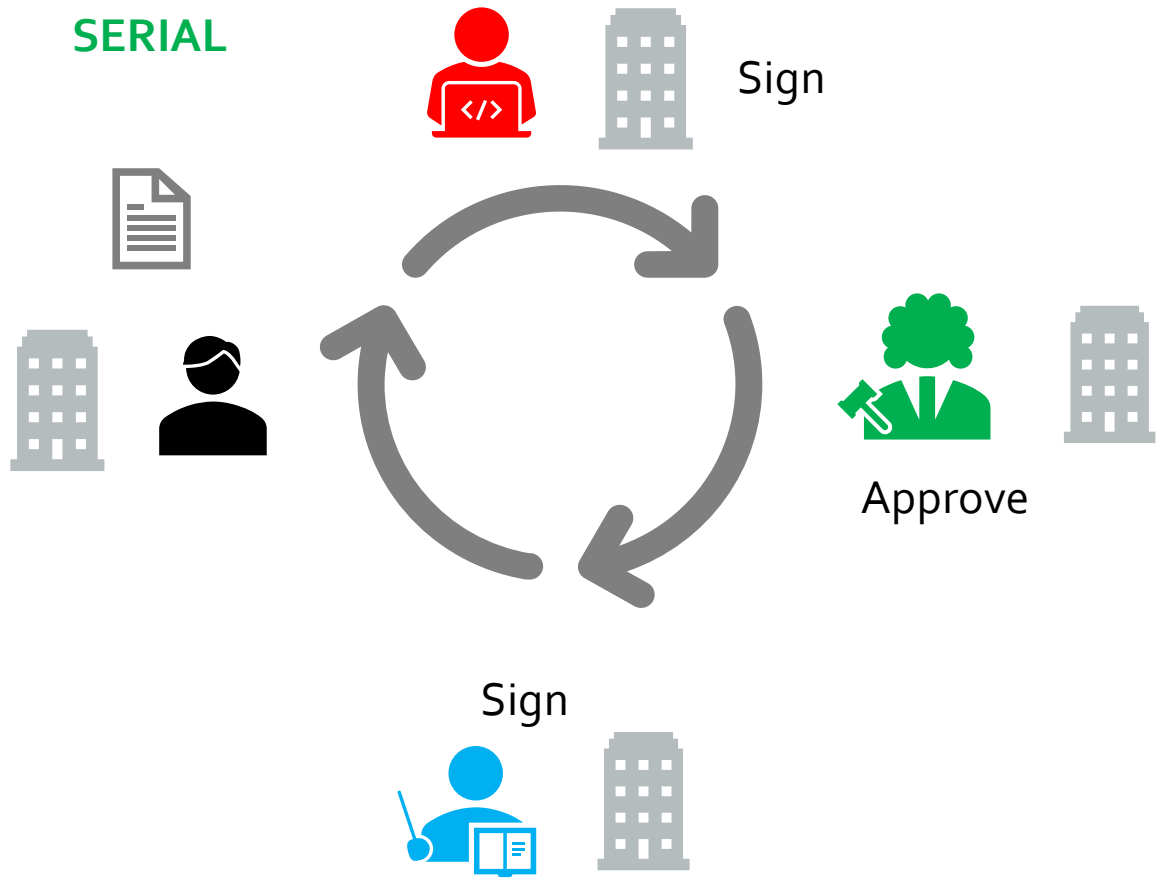
- ✓ Allows On-premise
- ✓ Allows Multiple Digital Signatures
- ✓ Allows user controlled Digital ID
- ✓ Allows PDF Digital Signatures
- ✓ Allows Approval & Sign options
- ✓ Allows Long term digital signatures
- ✓ Allows eID Smart Cards
- ✓ Allows multiple Teams accounts
- ✓ Allows creating Templates

Others

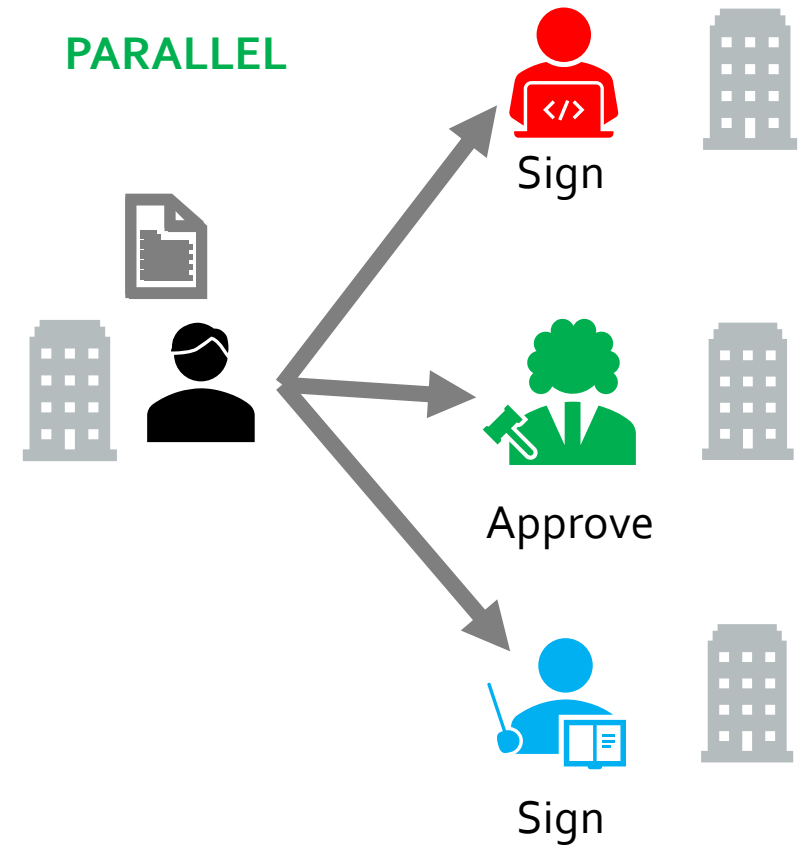
- Only SAAS
- E-Signatures or just one Digital Signature
- Use Business controlled Digital ID
- Only images or invisible signatures
- Only has Sign option
- Basic digital signatures (No timestamps)
- No Smart Card support
- No concept of teams or just a single team
- No Templates

KhatimDoc – Workflows

SERIAL



PARALLEL



KhatimDoc – Demo

KhatimDoc – Demo > Login



KhatimDoc

Get documents signed faster, No credit card required.

User ID *

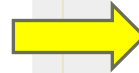
Remember me

[Continue](#)

[Don't have an account?](#)

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[Privacy Policy](#)



KhatimDoc

Get documents signed faster, No credit card required.

User ID: wahaj123

Password *

[Forgot Password?](#)

[Login](#)

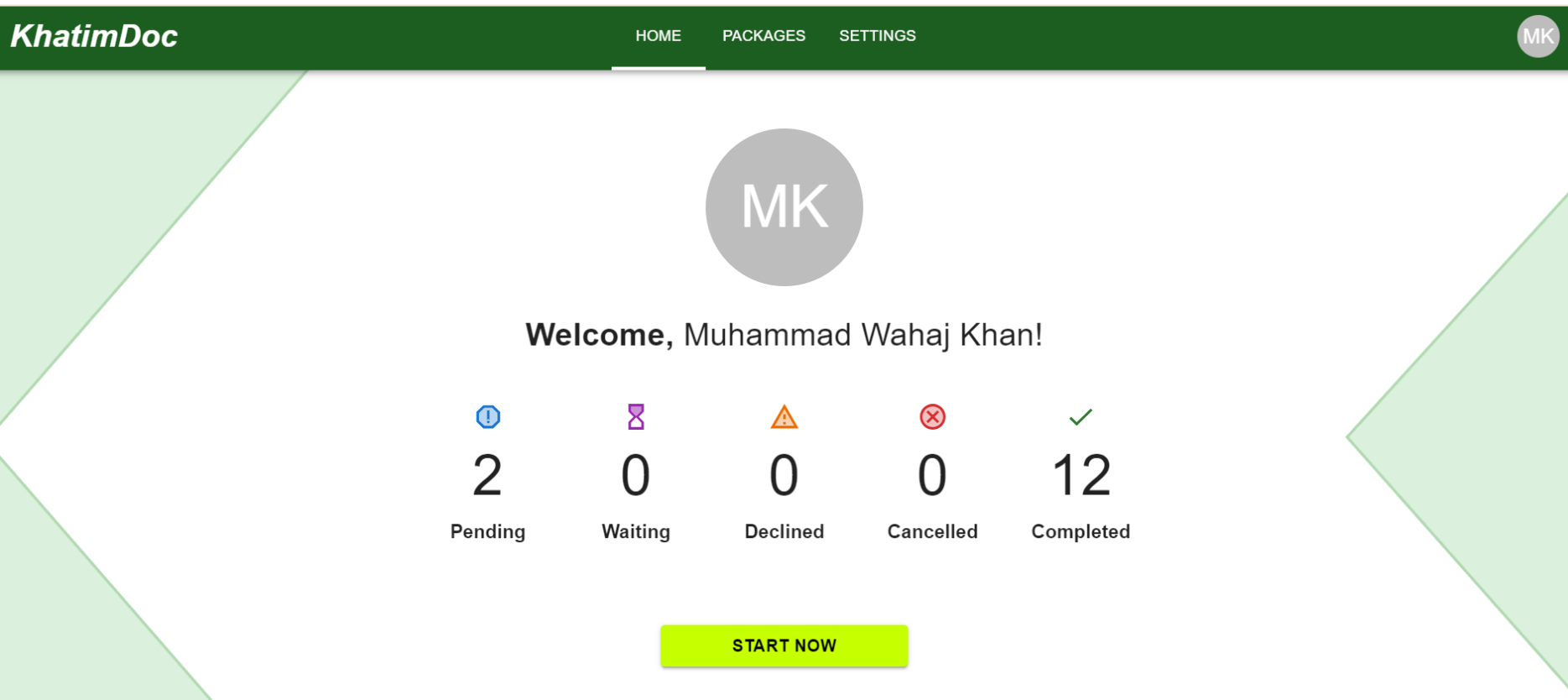
[Don't have an account?](#)

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Enter user id and password to **login** and access your private portal

KhatimDoc – Demo > Dashboard



The dashboard features a dark green header with the 'KhatimDoc' logo on the left and navigation links for 'HOME', 'PACKAGES', and 'SETTINGS' in the center. A user profile icon with the initials 'MK' is on the right. The main content area displays a large circular profile picture with 'MK' and a welcome message: 'Welcome, Muhammad Wahaj Khan!'. Below this, five document status cards are shown: 'Pending' (2), 'Waiting' (0), 'Declined' (0), 'Cancelled' (0), and 'Completed' (12). Each card includes a small icon representing its status. A bright green 'START NOW' button is positioned at the bottom center.

| Status | Count |
|-----------|-------|
| Pending | 2 |
| Waiting | 0 |
| Declined | 0 |
| Cancelled | 0 |
| Completed | 12 |

Check your **Dashboard** to see your pending documents to be approved or sign

KhatimDoc – Demo > Packages

KhatimDoc HOME PACKAGES SETTINGS MK

START NOW



Inbox
Sent
Drafts

FILTERS

- Pending** 2
- Waiting for Others
- Declined
- Cancelled
- Completed

Pending

Rows per page: 10 1-2 of 2

| Packages | Status | Updated | |
|---|---------|------------------------|---------------|
|  SAMPLE CONTRACT AGREEMENT Muhammad Wahaj, To: Ahmad | Pending | 2023-05-23 01:54:49 | SIGN ▾ |
|  1 page, Employment application - Duplicate Shahid, To: Wahaj, Shahid | Pending | 2023-04-08 01:26:21 | SIGN ▾ |

Packages shows the list of documents:


- Pending
- Waiting
- Declined
- Cancelled
- Completed



KhatimDoc – Demo > Prepare (1)

Template applied: Contract Agreement - Serial - 3 person - Approver, Signer, Signer - Serial

APPLY TEMPLATE CLOSE DELETE CONTINUE >

Add Documents

 **1 - Add As Many Documents (Local Storage, Document Gallery etc.)**

Add Recipients

Signing Order: Serial

2 - Add As Many Recipients

3 - Control Access

| Order | Name * | Email * | Role | Access |
|-------|-------------|---------------------------------|--------|---|
| 1 | Talha Bilal | talha.bilal@codegic.com | Signer | <input checked="" type="checkbox"/> Access Code <input type="checkbox"/> Private Message <input type="checkbox"/> Access Duration <input checked="" type="checkbox"/> Access Rights <input type="checkbox"/> Download |
| 2 | Wahaj | muhammad.wahaj.khan@codegic.com | Signer | <input type="checkbox"/> Access Code <input type="checkbox"/> Private Message <input type="checkbox"/> Access Duration <input checked="" type="checkbox"/> Access Rights <input type="checkbox"/> Download |

KhatimDoc – Demo > Prepare (2)


Package: Construction Invoice

Recipients

Wahaj

Add Fields

- D-Sign
- E-Sign
- Initials
- Text
- Checkbox
- Dropdown
- Company
- Name
- Phone
- Email



INVOICE


DATE

INVOICE NO

| QUANTITY | DESCRIPTION | UNIT PRICE | LINE TOTAL |
|----------|------------------|------------|------------|
| 2 | Generators | \$4800 | \$9600 |
| 10 | Air Conditioners | \$780 | \$7800 |
| 121 | Lighting Bulbs | \$5 | \$605 |
| 98 | Electric Sockets | \$9 | \$882 |


| | |
|--------------|----------------|
| Subtotal | \$18887 |
| Sales Tax | \$3210 |
| Total | \$22097 |

Signed by Manager



Documents

Construction Invoice

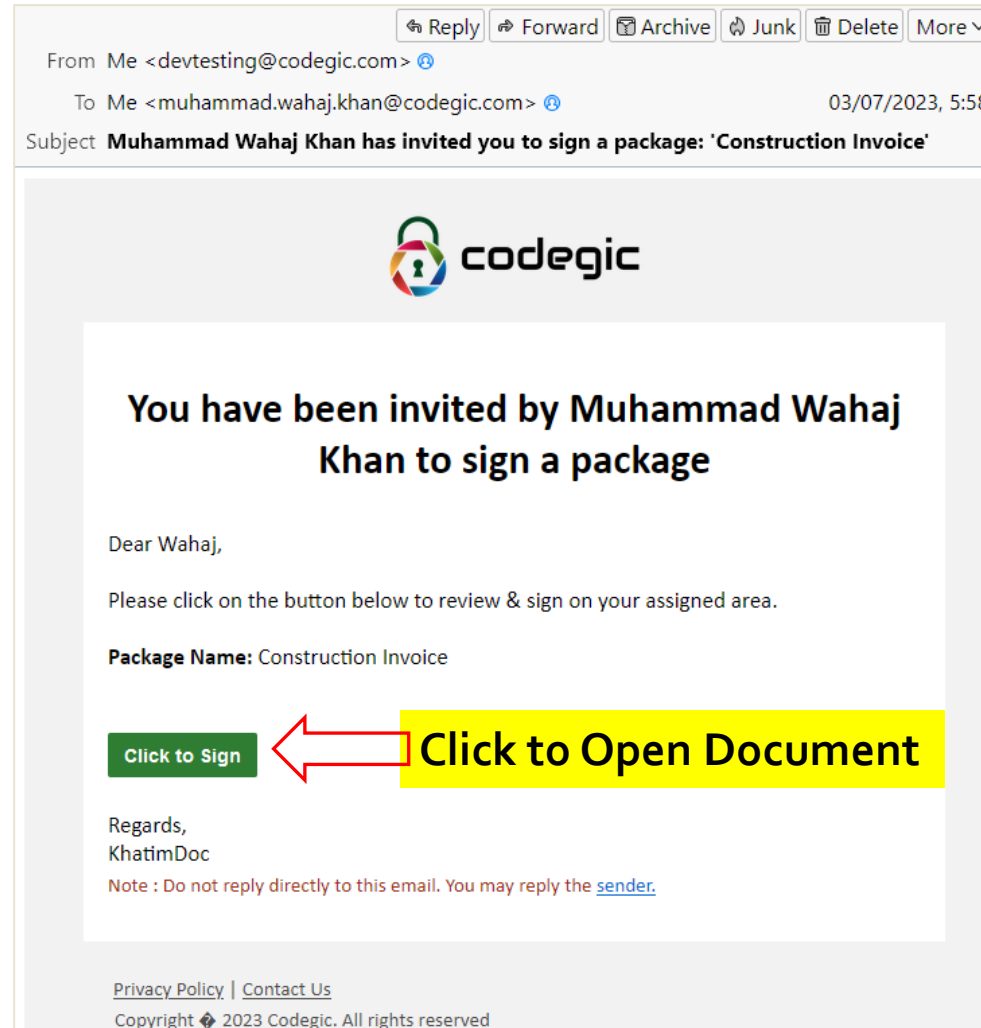


3 - Press to Send

- Identify Fields to Fill
- Identify Signatures
- Press Send

KhatimDoc – Demo > Invitation

- Recipient gets an email with the link to open and sign the document.
- Recipient will be authenticated to access his portal




KhatimDoc – Demo > Preview

Package: Construction Invoice

CLOSE DECLINE FINISH

INVOICE



DATE: 14 Jan 2023 INVOICE NO: INV 23445

| QUANTITY | DESCRIPTION | UNIT PRICE | LINE TOTAL |
|-----------|------------------|------------|------------|
| 2 | Generators | \$4800 | \$9600 |
| 10 | Air Conditioners | \$780 | \$7800 |
| 121 | Lighting Bulbs | \$5 | \$605 |
| 98 | Electric Sockets | \$9 | \$882 |
| Subtotal | | | |
| Sales Tax | | | |
| Total | | | |

Signed by Manager

KD Click to D-Sign

X _____

TEXT IMAGE

CHOOSE FONT ▾

MUHAMMAD WAHAJ KHAN

CANCEL ACCEPT AND SIGN

NEXT

↑

1 - Navigation Tab guides user to fill fields

←

2 - Click to Sign

→

↑

3 - Type name or choose an image

←

4 - Press Accept & Sign

- Recipient reviews, fills the document
- Once done, clicks on the signature field to sign

KhatimDoc – Demo > Finish

| DATE | INVOICE NO | | |
|-------------|------------------|------------|------------|
| 14 Jan 2023 | INV 23445 | | |
| QUANTITY | DESCRIPTION | UNIT PRICE | LINE TOTAL |
| 2 | Generators | \$4800 | \$9600 |
| 10 | Air Conditioners | \$780 | \$7800 |
| 121 | Lighting Bulbs | \$5 | \$605 |
| 98 | Electric Sockets | \$9 | \$882 |
| | | Subtotal | \$18887 |
| | | Sales Tax | \$3210 |
| | | Total | \$22097 |

Signed by Manager

Signed by: Wahaj
 Email: muhammad.wahaj.khan@codegic.com
 Signed At: 03 July 2023 03:04 PM

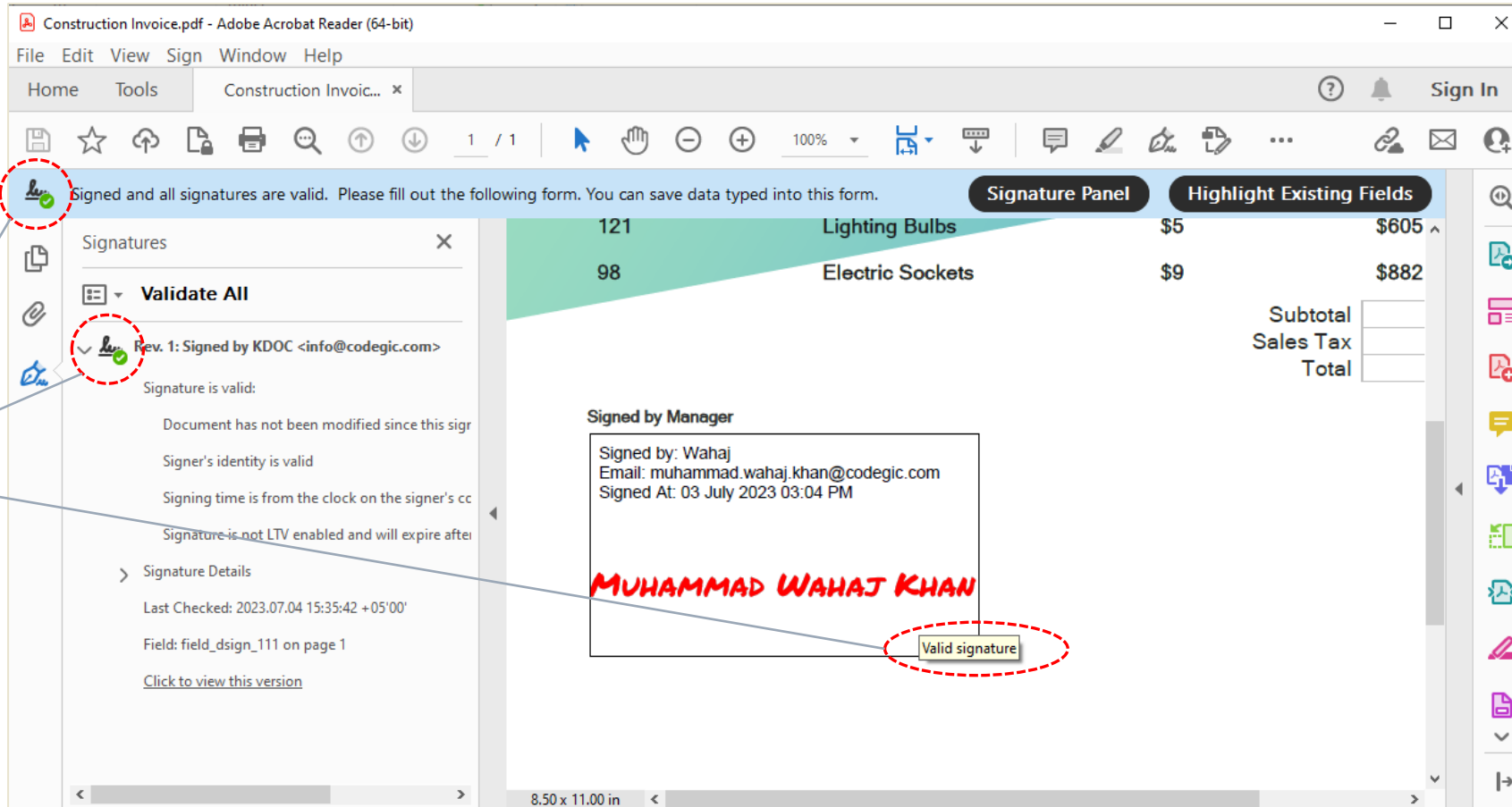
MUHAMMAD WAHAJ KHAN

- Shows **Signer, Date time, Email.**
 - Signer can't say in future that he didn't sign because **only he was in control of his account/Digital ID**

Hey, I am not just a signature but a Digital Signature. If any bit of this document is changed then this will be detected due to the security features of Digital Signature

- Signing process is completed
- Package owner will be automatically informed
- A detailed log is maintained
- Document can also be archived for future

KhatimDoc – Adobe Compatible



Integrity, Confidentiality, Long Term

KhatimDoc – Features – Productivity



Sign any time, any where

Collaborate effortlessly with stakeholders across different locations and time zones. Empower your team and clients to sign documents from anywhere, on any device, and keep your business moving forward with speed and flexibility.



Multiple Workflows

Create and manage multiple workflows from a single dashboard with multiple documents (package) to process. Add multiple reviewers or signers in a workflow. Recipients can sign or approve as per their roles. Allow serial or parallel workflows.



Collaborate

Collaborate with recipients using form fields (date, text, number, list, checkbox), initials, e-sign & digital signatures.



User Experience

Delight in a seamless user experience with Khatim Doc, where you can effortlessly setup workflows, navigate through quick filters and access package info. Breeze through form filling, ensuring a smooth and intuitive document management journey.



Shared Workspace

Allow team accounts to setup shared work spaces, easing collaboration while also having the ease of using personal workspaces.



Multiple Signing Modes

Allows e-signatures or digital signatures as per your regulatory or business needs.

KhatimDoc – Features – Security



Adobe Reader Compatible

Our digital signatures are not only compatible with Adobe Reader but also adhere to the PAdES (PDF Advanced Electronic Signatures) standard. This ensures that your digitally signed documents meet the highest industry standards for electronic signatures and can be easily validated and trusted across platforms.



Standard & Compliant

Supports industry regulations, including the eIDAS, ESIGN Act, UETA, HIPAA and FDA 21 CFR Part 11, allowing you to confidently meet legal requirements and maintain the highest standards of data integrity and security.



Cryptographic Agility

KhatimDoc server supports diverse cryptographic requirements such as:

- **RSA (2048, 4096, 8192)**
- **ECDSA (192, 224, 256, 320, 384, 512)**
- **SHA-256, 384 and 512 hashing algorithms**



Notifications

Helps you process documents with KhatimDoc's built in notification engine notifying recipients via email or SMS to process pending documents. Owners get notification on workflow completion as well.



Document Tracking

Owners can easily track areas like: package states, who has signed and when, whether it was approved, signed or declined with declining reason.



User rights

Apply further control by settings user access rights, document access PIN, private notices and access time limits for a package.

KhatimDoc – Features – Enterprise



Enterprise Management

Simplify administration by setting organization and teams account and invite members. Teams can create their own templates, doc gallery, agreements & contacts while organization can configure these globally.



Developer Integration

Simplify user enrollment and workflow initiation by seamlessly integrating with Khatim Doc's Restful Interfaces, allowing effortless connectivity with your existing ERP, ECM, and CRM solutions.



Server & Local signing

Sign documents locally using either HSM held keys or Smart Cards. Smart Cards or cryptographic USB token adds an extra layer of security and convenience to your digital signing process.



Branding

Customize your document management experience with our white-label solution, empowering you to showcase your organization's unique identity through personalized logos and theme colors.



Powerful PKI Engine

KhatimDoc integrates with Khatim PKI Server for all its crypto processing including certificate issuance, revocation and digital signature creation. This allows reusing your existing PKI investments while allowing better control over key management and its life cycle.



Cross Platform, Diverse Deployments

Whether you choose Windows or Linux, our platform-independent solution seamlessly adapts to your environment, including on-premise private or public cloud, VMs, and physical machines. Enjoy the flexibility of deployment options that suit your specific needs.

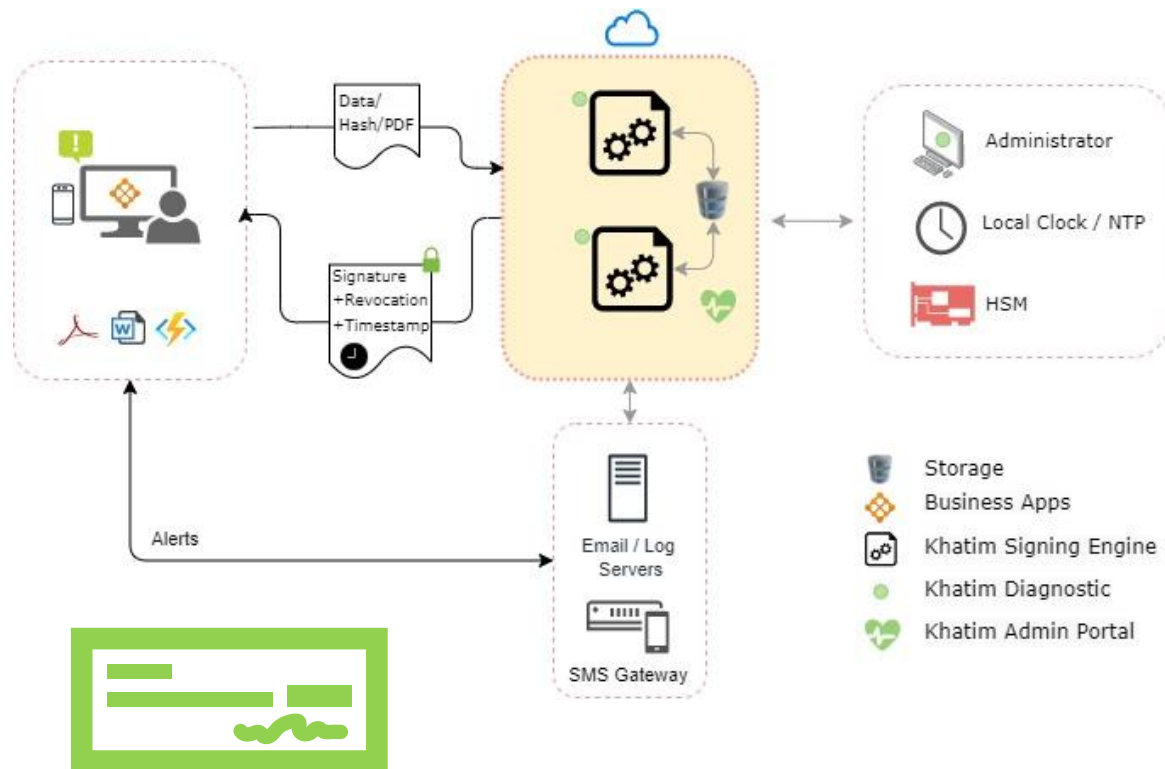


Khatim Sign Server

Under the hood



Khatim Sign Server – Core Features



- Server Side Signing
- Multiple Signatures
- PAdES (ISO 14533-3:2017)
- XML Signatures (XAdES)
- Document Timestamping
- Restful APIs
- Integrate with ECM, CRM
- Unlimited Scalability

Khatim Sign Server – Details



Supported Signature Formats

Creates advanced digital signatures based on IETF and ETSI standards including:

- XAdES
- CAdES
- PAdES
- JAdES
- PKCS#1 (Hash signing) signatures formats.



Serve Multiple Policies

Setup multiple policies to cater different configurations like cryptographic algorithms, signature placement coordinates, pages, visible or invisible, certified or approval signature formats etc. This allows serving different



Seamless integration with HSMs or Smart Cards

Quickly integrates with your existing HSMs over PKCS#11 such as:

- Entrust nShield
- Thales Luna & Protect Server
- Utimaco Cryptoserver
- Microsoft Azure Key Vault
- AWS HSM etc.

Likewise you may also plugin Smart Cards containing signing keys to create digital signatures.



Quick Developer Integrations

Khatim signing server provides developer friendly, restful interfaces allows them to integrate with their ECM, CRM and CMS in a matter of minutes. All end-points are secured and authorized over TLS Client Authentication.

Khatim Sign Server – Details



Cross Platform, Diverse Deployments

Khatim signing server is built with platform independence in mind hence supports Windows and Linux alike. You can deploy in different environments be it on-premise, private or public cloud, VMs or physical machines.



Cryptographic Agility

Keeping in view businesses having different cryptographic needs, Khatim signing server supports both RSA and ECDSA cryptography with SHA-256, 384 and 512 hashing algorithms.



Military Grade Access Control

Ensures military grade security (AES 256) to your signing server instance during administration using TLS client authentication.



Admin Friendly GUI

Control your signing server administration with GUI based interfaces. From key generation, policy management to transaction log viewing all can be done from a single place.



Proactive Alerts & Troubleshooting

In situations where signing server is not working as it should, Khatim signing server proactively notifies administrators to take immediate action. For traceability, all issues are recorded which can be pushed securely to your central logging systems e.g. Splunk, Grafana, Greylog, LogRhythm etc.



Logging & Auditing

Khatim signing server records all incoming transactions & configuration for detailed analysis including the lower level cryptographic objects (CRL, OCSP, Timestamps) to construct long term digital signatures. Administrator can download and investigate request/responses on the fly, any time for troubleshooting or to check server status.

What Next?

Schedule a product demo & we will love to showcase them :)

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