emdha Information Technology
(Trust Service Provider)
Saudi Arabia

May 8, 2023
Introduction

emdh Information Technology (Trust Service Provider)

• Formed in 2019, 100% Subsidiary of BTC Networks

• Provider of Digital Signature Certificates, Trust Services & Process Automations

• Certified by WebTrust for Certification Authorities (WT4CA)

• IMS Certified in FIVE ISO Standards

• Listed in the National Cybersecurity Authority (NCA) portal as a Registered Service Provider

• Members of:

  Principal Member  Associate Member  Executive Member
Pioneering Accomplishments

**Paperless and Presence-less Signing Service**

- **1st Certification Authority (CA) in KSA to be Licensed By**
- **1st CA in KSA to be Recognized By**
- **1st CA in KSA to receive the WebTrust Seal**
- **Trusted By global root stores**
- **Compliant to KSA e-Transaction Law, Article#14** (Digitally signature shall be equal to a handwritten signature, having the same legal effects)
About BTC Networks

• Formed in 1976, 100% Saudi Ownership with focus on ICT and System Integration

• Highest Partnership Relationship with more than 100+ technology vendors

• Annual Revenues : > 1 Billion SAR (USD 267 Million)

• Licensed Operators for : VSAT, NOC, SOC, Cloud Services

• More than 1200 employees

• ISO 9001 & 31000 Certified
Timeline – Digital Transformation Journey in Saudi Arabia

- Establishment of NCDC (now DGA) in 2001
- eTransactions Law in March 2007
- Establishment of Root CA in March 2009
- Establishment of Government CA in May 2009
- Vision 2030 announced in April 2016
# PKI Hierarchy in KSA

<table>
<thead>
<tr>
<th>CA TYPE</th>
<th>Certification Authority (CA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROOT CA (KSA TRUST ANCHOR)</td>
<td>Saudi National Root CA (NCDC/DGA)</td>
</tr>
<tr>
<td>INTERMEDIATE CA (LEVEL-1)</td>
<td>BTC / emdha Licensed CA</td>
</tr>
<tr>
<td></td>
<td>STCS Intermediate CA</td>
</tr>
<tr>
<td>ISSUING CAs (LEVEL-2)</td>
<td>emdha eSign CA</td>
</tr>
<tr>
<td></td>
<td>emdha DSC CA</td>
</tr>
<tr>
<td></td>
<td>emdha TSA CA</td>
</tr>
<tr>
<td></td>
<td>STCS Qualified CA</td>
</tr>
<tr>
<td></td>
<td>STCS Identity CA</td>
</tr>
</tbody>
</table>
Commercial CA License Awarded by CST
January 2017

emdha established Intermediate CA & eSign Issuing CA
December 2019

Launched emdha eSign (Model 1) Services
February 2020

WebTrust for CA Certification
May 2020
Renewal: ‘21,'22,'23

Establishment of User Verification and Authentication System
February 2022

Timeline – Establishment of emdha – 1/2
Launch of emdha eSign (Model 2) Services
March 2022

Established DSC CA & TSA CA
October 2022

Established TimeStamp Service under TSA CA
November 2022

Launched Workflow & DSC Services
February 2023

IMS with FIVE ISO Standards
January 2023
ISO Certificates

ISO/IEC 27001:2013
ISO/IEC 9001:2015
ISO/IEC 27701:2019
ISO/IEC 20000-1:2018
ISO/IEC 22301:2019
Service Overview

Easy, Quick and User-Friendly Enrollment Process

Quick One-Time Enrolment → Review Document(s) → Sign and Share

Track Your Usage

Types of Certificates
- Individual Certificate
- Organization User Certificate
- Authorized Signatory Certificate
- Organization Digital Stamp
- Lite Assurance Certificate
- Digital Signature Certificate

Trusted, Secured and Easy Enrolment
- Bank / NIC-IAM KYC
- ID Verification through National KYC
- Other Trusted KYC Sources

Offerings and Value Proposition
- API based integration
- Cloud based workflow solution
- On-premise workflow solution
- Seamless user experience
TSP Service Types

Model #1

Individual Signatory

Authorized Signatory

Sign with Organization Capacity

Organization Role Signatory

Stamp, QR-Code & Signature Appearance

Mobile App

Bank/Other

Trusted KYC

User Account Vault (UAV)

Organization Portal

Bank/Other

Trusted KYC

Subscriber Portal

Authorized Signatory

Emdha User Account

Organization Role Signatory

Mobile App

Stamp, QR-Code & Signature Appearance

Emdha User Account

Vault (UAV)

Organization Portal

Subscriber Portal

Digital Identity
Signing Flow (Model-I)
Signer’s Authentication using a trusted source

User / Customer

Customer Business Layer

Business Applications
SAP / Oracle / CRM / BPM / HRMS / DMS / Correspondence Systems and so on....

Internet

Bank/Other
Trusted KYC

Document Workflow

Remote Sign Service Provider

- Validate Request
- Generate Certificate
- Sign Doc Hash
- Destroy Keys

Integration Kit / SDK

Calculate Doc Hash

Embedded Signature on doc

Internet

eSign Request

eSign Response

User / Customer

Bank/Other

Trusted KYC

Digital Identity
Signing Flow (Model-II)

Signer’s Authentication using a trusted source

Customer Business Layer

Business Applications
SAP / Oracle / CRM / BPM / HRMS / DMS / Correspondence Systems and so on....

Document Workflow

Signer G/W

Internet

eSign Request

eSign Response

Remote Sign Service Provider

✓ Validate Request
✓ Generate Certificate
✓ Sign Doc Hash
✓ Destroy Keys

emdha User Account Vault (UAV)

MFA through Nafath App (National IAM Service)

*UAV is populated from the KYC information received from National IAM Service
## Request For Quotation
(Received by Telephone Call)

**Date:** 1-1-2022  
**Time:** 10:00AM

**Customer Information:**

- **Company Name:** XYZ  
- **Caller Name:** Mohammad

- **Telephone:** 011-4663000  
- **Fax:** -  
- **Mobile:** 011-4663000

**Requirement:**

<table>
<thead>
<tr>
<th>S. No</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Digital Signature Solution</td>
<td>10,000</td>
</tr>
</tbody>
</table>

**Important Notes:**

- [QR Code]

**Prepared by:** Saleh (BTC)  
**Approved by:** Saleh (emdha)  
**Date:** 1-1-2022

---

**Sample Digitally Signed Document**

What You See Is What You Sign (WYSIWYS) – Using emdha “UAV” (Model#2)

**Certificate Viewer**

This dialog allows you to view the details of a certificate and its entire issuance chain. The details correspond to the selected entry.

**Summary**

- Issued by: EMDOHCA Sign CA  
- Issued to: saleh.yousif@batac.com  
- Valid from: 2022/05/17 19:07:43 +03:00  
- Valid to: 2022/05/17 19:07:43 +03:00

**Details**

- Intended use: Digital Signature, Non-Repudiation, Document Signing, Acrobat Authentic Documents

---

**Certificate Viewer**

This dialog allows you to view the details of a certificate and its entire issuance chain. The details correspond to the selected entry.

**Summary**

- Issued by: EMDOHCA Sign CA  
- Issued to: saleh.yousif@batac.com  
- Valid from: 2022/05/21 12:46:28 +03:00  
- Valid to: 2022/05/21 13:16:28 +03:00

**Details**

- Intended use: Digital Signature, Non-Repudiation, Document Signing, Acrobat Authentic Documents
Sample Digitally Signed Document

What You See Is What You Sign (WYSIWYS) - Using emdha ‘‘UAV’’ (Model#2)

Date: 1-1-2022
Time: 10:00AM

Customer Information:
- Company Name: XYZ
- Caller Name: Mohammad
- Telephone: 011.4663000
- Mobile: 011.4663000
- E-mail:

Requirement:

<table>
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<tbody>
<tr>
<td>1</td>
<td>Digital Signature Solution</td>
<td>10,000</td>
</tr>
</tbody>
</table>

Important Notes:

Name: Saleh Yousef
Signature: Saleh Yousef
Date: 1-1-2022

Prepared by: Saleh (BTC)
Approved by: Saleh (emdha)
YoY Growth Statistics

CUSTOMERS

<table>
<thead>
<tr>
<th>Year</th>
<th>Other</th>
<th>Government</th>
<th>Finance</th>
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</thead>
<tbody>
<tr>
<td>2020</td>
<td>3</td>
<td>16</td>
<td>20</td>
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<tr>
<td>2021</td>
<td>0</td>
<td>9</td>
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<tr>
<td>2022</td>
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<tr>
<td>2023</td>
<td>1</td>
<td>3</td>
<td>8</td>
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</table>

CAGR: 16%

TRANSACTIONS

<table>
<thead>
<tr>
<th>Year</th>
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<tr>
<td>2020</td>
<td>39,554</td>
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<tr>
<td>2021</td>
<td>13,15,456</td>
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<td>2022</td>
<td>20,43,940</td>
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<tr>
<td>2023</td>
<td>10,55,779</td>
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CAGR: 273%
Few of our esteemed Customers...

Banking Clients (9)

<table>
<thead>
<tr>
<th>Logo</th>
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<tbody>
<tr>
<td>SNB</td>
<td>Al Rajhi Bank</td>
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<td></td>
<td>مصرف الراجحي</td>
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<tr>
<td></td>
<td>Banque Saudi Fransi</td>
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<tr>
<td></td>
<td>Riyad Bank</td>
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<tr>
<td></td>
<td>البنك السعودي للاستثمار</td>
</tr>
<tr>
<td></td>
<td>Bank Albilad</td>
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<td>البحرين الدولي</td>
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Financial Companies (16)

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<tr>
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<tr>
<td></td>
<td>Abdul Latif Jameel</td>
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<td>EMKAN</td>
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<tr>
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<td>QUARA FINANCE</td>
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<td>JARAH Finance</td>
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<td>TANMEYA</td>
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<td>Dar Al Tamleek Co</td>
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<td>النابعات</td>
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<td>البصر</td>
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<td>AMLAK</td>
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<td>AJURFINANCIAL SERVICES COMPANY</td>
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Few of our esteemed Customers...

Fintech Companies (20)

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<tr>
<th>Tamam</th>
<th>سلافة</th>
<th>منافع</th>
<th>Sukuk Capital</th>
<th>FORUS</th>
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<tbody>
<tr>
<td>BAKfintech</td>
<td>FinZey Finance</td>
<td>Manafa</td>
<td>creditly</td>
<td>سيركلوز</td>
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<td>مرنة</td>
<td>تمديد</td>
<td>CREATIVE FUTURE</td>
<td>تمويل الأولي</td>
<td>FINTECH</td>
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<tr>
<td>Lendo</td>
<td>Wethaq</td>
<td>رقمية</td>
<td>Luqman</td>
<td>RBH</td>
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</table>
Few of our esteemed Customers...

Private Companies (9)

<table>
<thead>
<tr>
<th>Company 1</th>
<th>Company 2</th>
<th>Company 3</th>
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<tbody>
<tr>
<td>Mobily</td>
<td>SAED</td>
<td>DAR (Arkan)</td>
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<tr>
<td></td>
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<td>SDAFOCO</td>
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<td>PwC</td>
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<tr>
<td>Arco</td>
<td>White ESNAD</td>
<td>Al Jomaih Holding</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Al Hammadi Hospitals Group</td>
</tr>
</tbody>
</table>
Few of our esteemed Customers...

Government Agencies (27)

- Royal Commission for AlUla
- Agricultural Development Fund
- Kafalah
- National Center for Meteorology
- Saudi Electricity Company
- Ministry of Culture
- National Events Center
- Education & Training Evaluation Commission
- General Authority for Competition
- TAQIEM
- Transport General Authority
- Local Content & Government Procurement Authority
- ROSHN
- Saudi Geological Survey
- Saline Water Conversion Corporation (SWCC)
- King Fahad National Library
- King Abdullah Petroleum Studies and Research Center
- University of Ha'il
- Ministry of Municipal & Rural Affairs
- Remat Al-Riyadh
Thank You....