



إمضاء
emdha

PKI Model in Saudi Arabia

September 21, 2022



Introduction

emdha Trust Services Provider (emdha TSP)

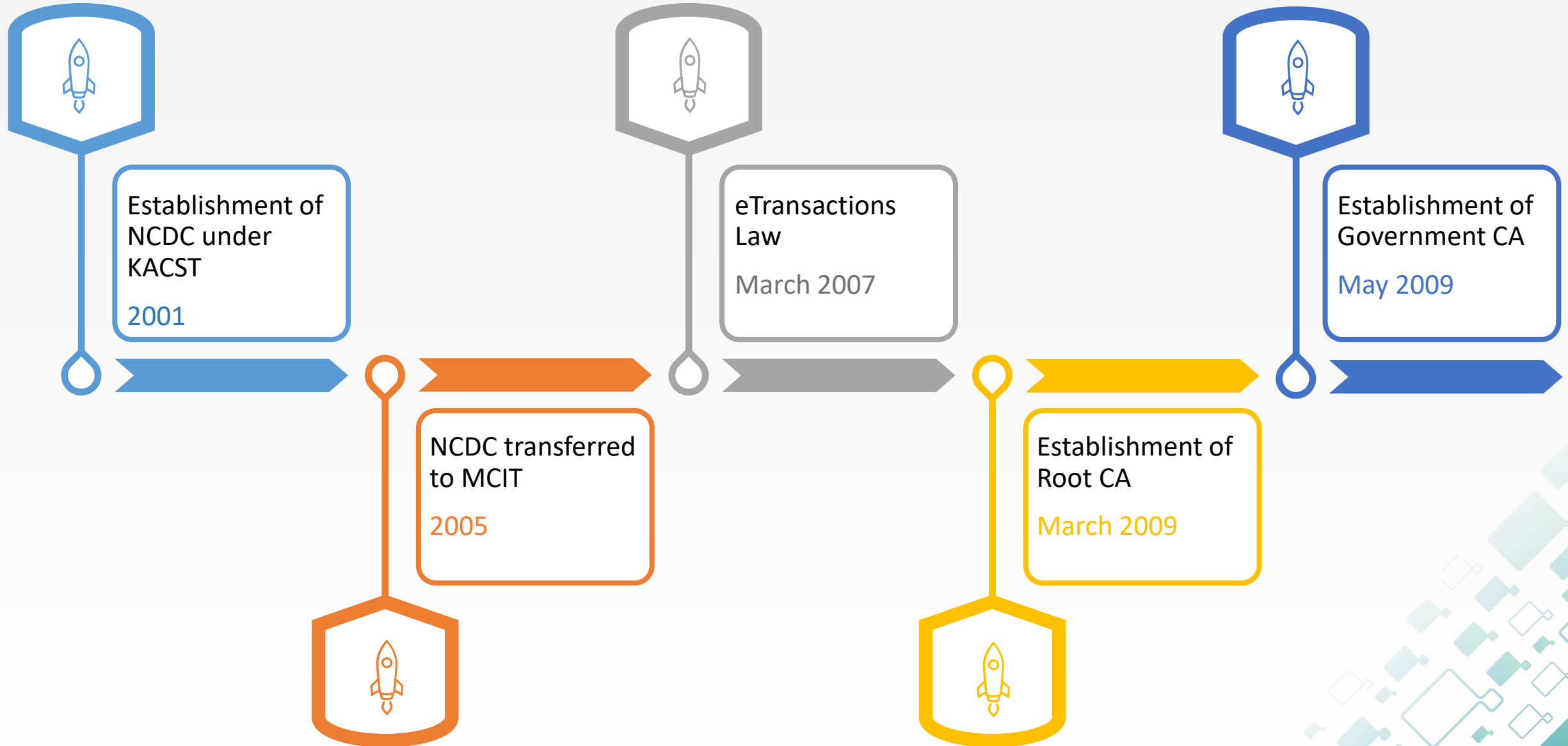
- Formed in 2019, 100% Subsidiary of BTC Networks
- Provider of Digital Signature, Trust Services & Workflow Applications
- Certified by Webtrust for Certification Authorities (WT4CA)
- Members of :
 - Cloud Signature Consortium (CSC) – Executive Member
 - Asia PKI – Principal Member
 - FIDO – Associate Member

Baud Telecom Company (BTC Networks)

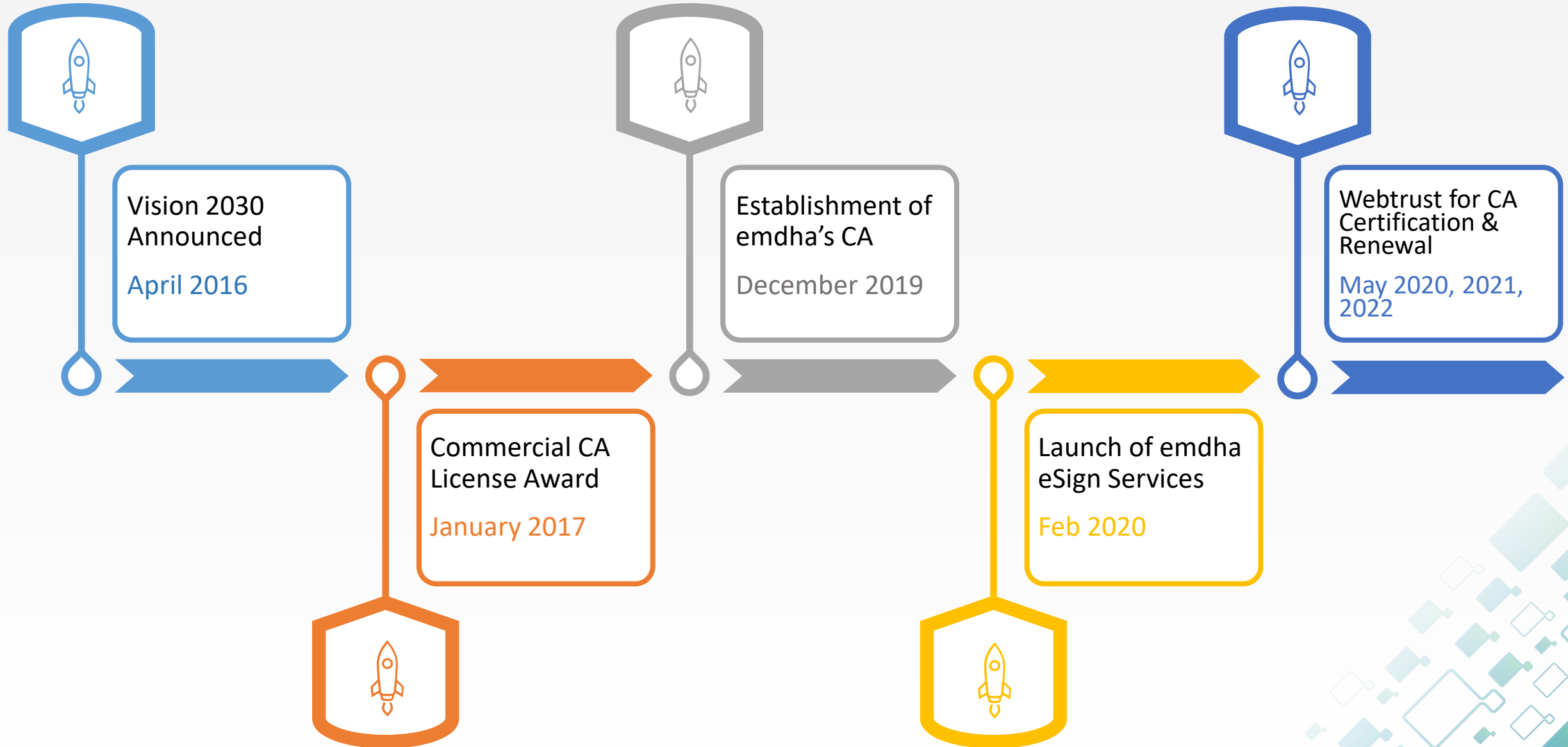
- Formed in 1976, 100% Saudi Ownership
- Focus on introducing state-of-art technologies to Saudi Arabia in Information Technology & Communications
- More than 1200 employees
- Highest Partnership Relationship with more than 100+ technology vendors
- Annual Revenues : > 1 Billion SAR (USD 267 Million)
- ISO 9001 Certified
- Licensed Operators for : VSAT, NOC, SOC, Cloud Services & Digital Signature (emdha)
- Regional Player with presence in Egypt, Jordan & Lebanon



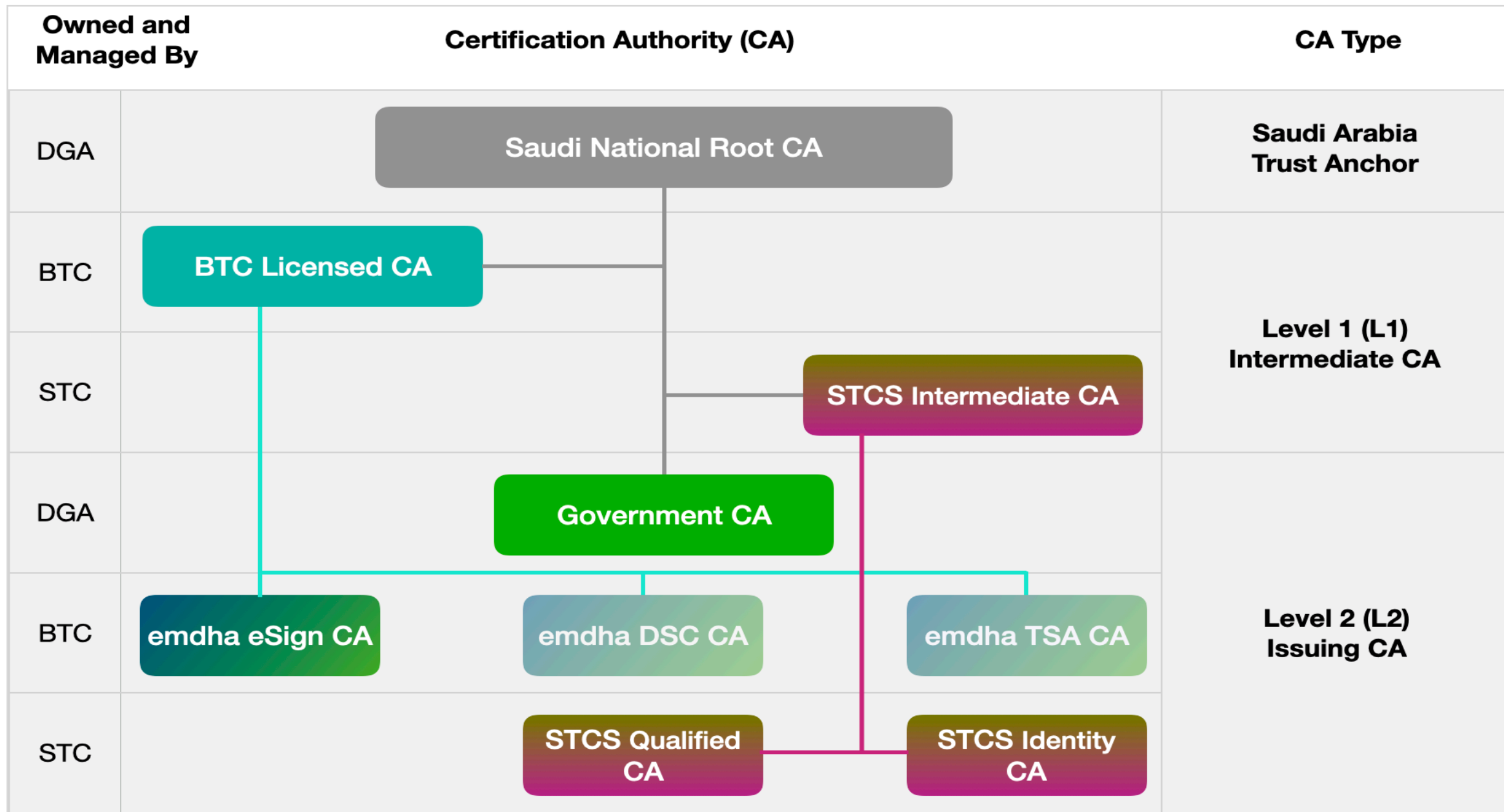
Timeline – PKI Journey in Saudi Arabia -1/2



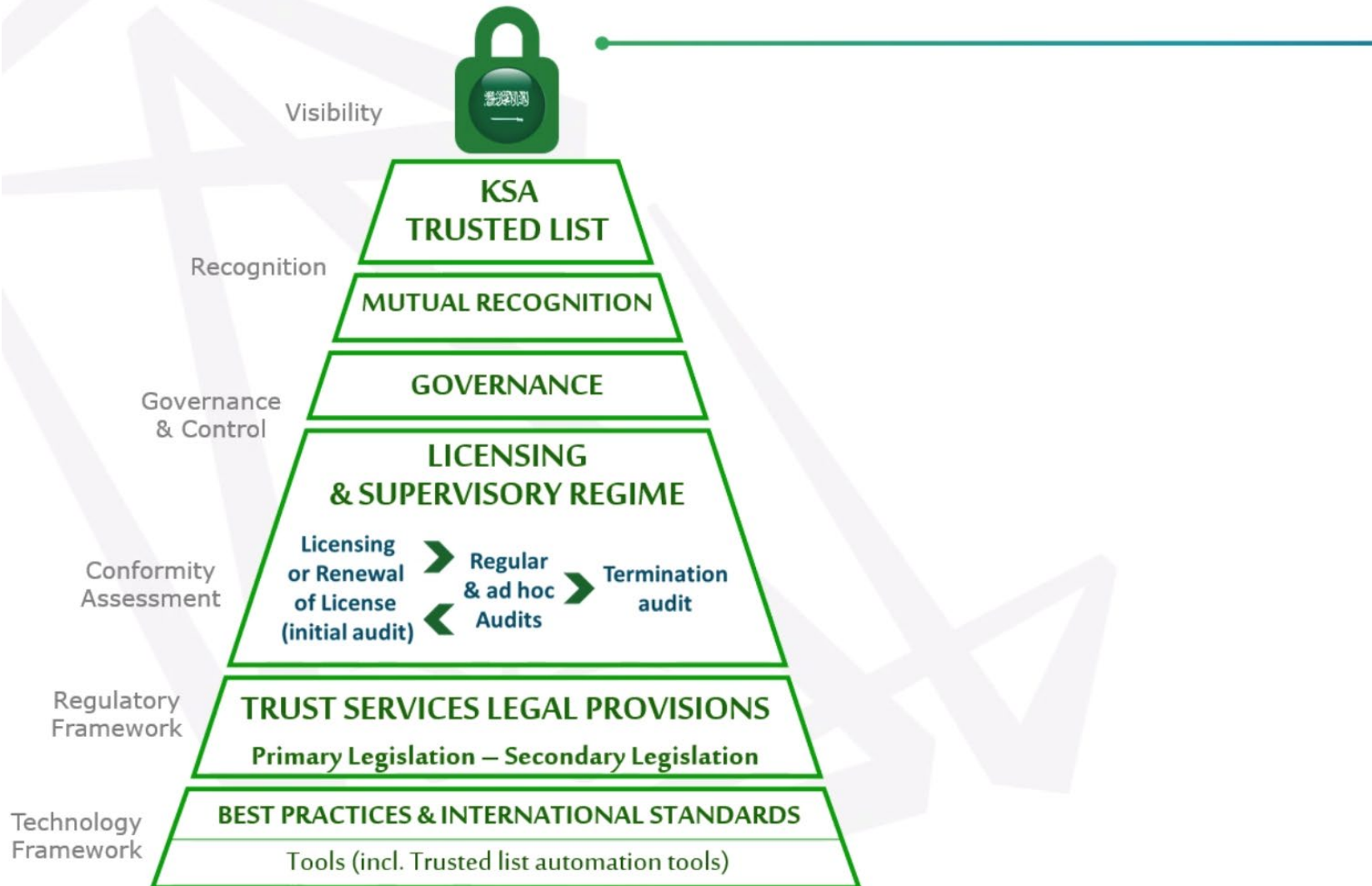
Timeline – PKI Journey in Saudi Arabia – 2/2



PKI Hierarchy in KSA



KSA Trust services framework overview – Future State



Trust
SERVICE PROVIDER

About emdha Trust Service Provider (TSP)

Paperless and Presence-less Signing Service

✓ **1st Certification Authority (CA) in KSA to be Licensed By**



هيئة الاتصالات وتقنية المعلومات
Communications & Information
Technology Commission

✓ **1st CA in KSA to be Recognized By**



هيئة الحكومة الرقمية
Digital Government Authority

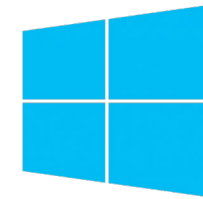
المركز الوطني
للتصديق الرقمي
NATIONAL CENTER FOR DIGITAL CERTIFICATION



✓ **1st CA in KSA to receive the WebTrust Seal**



✓ **Trusted By global root stores**



✓ **Compliant to KSA eTransaction Law, Article 14**

emdha eSign - Key Advantages

Enhanced Mobile App for Users/Subscribers to SIGN ON THE GO

- ✓ More secure – Certificates not stored in 3rd party system
- ✓ Multiple User Signatures in One Document
- ✓ Long-term Validation (LTV)
- ✓ Bulk signing of documents (up to 10 docs)
- ✓ Sign as an Individual or Legal Person or Legal Entity
- ✓ Secured Digital Seal with Timestamp for Organization
- ✓ Self-service portal for Individuals and Organizations
- ✓ Highly secured Short-Lived Certificates



Few of our esteemed Customers...

Banking Clients (9)

	 <p>مصرف الراجحي Al Rajhi Bank</p>	 <p>البنك السعودي الفرنسي Banque Saudi Fransi</p>	 <p>بنك الرياض riyad bank</p>	 <p>البنك السعودي للاستثمار The Saudi Investment Bank</p>
 <p>بنك البلاد Bank Albilad</p>	 <p>العربي anb</p>	 <p>GIB بنك الخليج الدولي</p>	 <p>ساب SABB</p>	

Financial Companies (11)

 <p>Abdul Latif Jameel FINANCE</p>	 <p>إمكان MKAN</p>	 <p>Saudi Fransi For Finance Leasing السعودي الفرنسي للتمويل والتأجير</p>	 <p>الجبر للتمويل aljabr finance</p>	 <p>إجارة IJARAH للتمويل Finance</p>	 <p>شركة دار التمليك Dar Al Tamleek Co.</p>
 <p>QUARA FINANCE</p>	 <p>تسفييل للتمويل</p>	 <p>النافات Nayifat</p>	 <p>TAYSEER الزييسير</p>	 <p>اليسر ayusr للتمويل FINANCE</p>	

Few of our esteemed Customers...

Fintech Companies (19)

 <p>تمام tamam</p>	 <p>سلفة</p>	 <p>منافعة Manafa</p>	 <p>صكوك Sukuk Capital</p>	 <p>فرص FORUS</p>
 <p>BAKfintech</p>	 <p>فينزي للتمويل FinZey Finance</p>	 <p>BayanPay</p>	 <p>كردتلي credity</p>	 <p>سيركليز Circlys</p>
 <p>مرابحة مرنة</p>	 <p>تعميد</p>	 <p>CREATIVE FUTURE مستقبل الإبداع FOR DIGITAL BUSINESS توجهات الأعمال الرقمية</p>	 <p>تمويل الأوتلي TAMWEEL ALOULA</p>	 <p>هم AZMI SAUDI FINTECH</p>
 <p>Lendo</p>	 <p>Wethaq</p>	 <p>منصة رقميه لتقنية المعلومات RAQAMYAH PLATFORM</p>	 <p>لوان</p>	

Few of our esteemed Customers...

Government Agencies (17)

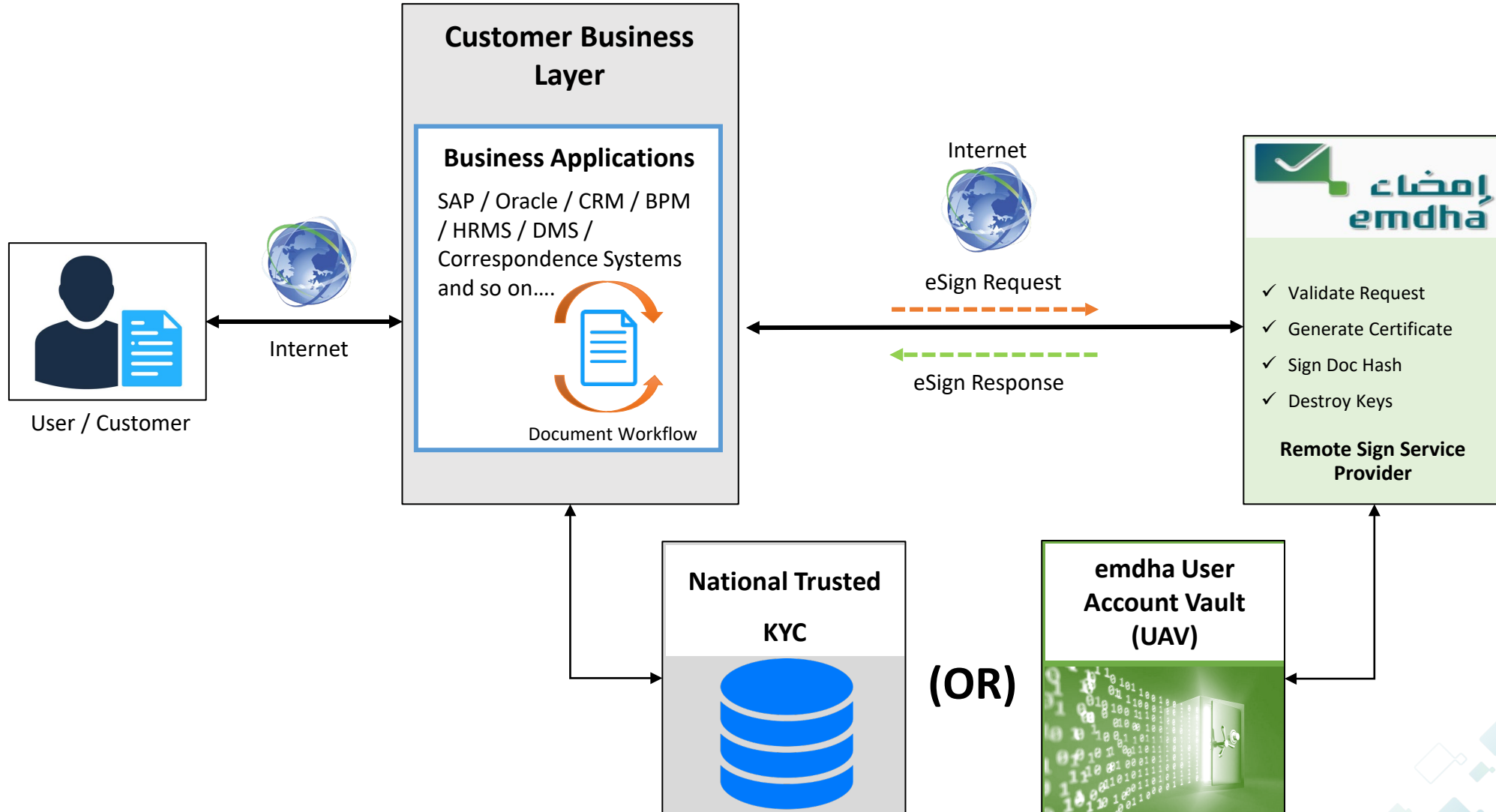
 <p>الهيئة الملكية لمحافظة العلا Royal Commission for AlUla</p>	 <p>صندوق التنمية السياحية Tourism Development Fund</p>	 <p>صندوق التنمية الزراعية Agricultural Development Fund المملكة العربية السعودية</p>	 <p>كفالة Kafalah برنامج ضمان التمويل للمشاريع الصغيرة والمتوسطة Small & Medium Enterprises Loan Guarantee Program</p>	 <p>المركز الوطني للأرصاد National Center for Meteorology المملكة العربية السعودية</p>
 <p>الشركة السعودية للكهرباء Saudi Electricity Company نعمل بابتقان من أجلكم</p>	 <p>ثقة THIQAT</p>	 <p>SAUDI EXIM بنك التصدير والاستيراد السعودي</p>	 <p>وزارة الثقافة Ministry of Culture</p>	 <p>المركز الوطني للفعاليات National Events Center</p>
 <p>هيئة تقويم التعليم والتدريب Education & Training Evaluation Commission</p>	 <p>الهيئة العامة للنقل TRANSPORT GENERAL AUTHORITY</p>	 <p>الهيئة العامة للمنافسة General Authority for Competition</p>	 <p>مكتبة الملك فهد الوطنية King Fahad National Library</p>	 <p>أمانة المنطقة الشرقية تقييم TAQEEM</p>

Private Companies (5)

 <p>موبايلي Mobily</p>	 <p>ساعد SAED تصوّر BE/AHEAD</p>	 <p>arco شركة أركو للاستقدام Arco Recruitment Co</p>	 <p>DAR AL ARKAN دار الأركان</p>	 <p>الموارد للقوى البشرية Al Mawarid manpower</p>
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Signing Flow

Signer's Authentication using a trusted source



Digitally Signed Document Final Result

What You See Is What You Sign (WYSIWS)



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

E-mail _____


Requirement:



S. No	Description	Quantity
1	Digital Signature Solution	10,000

Important Notes:

Prepared by Saleh (BTC)

Approved by Saleh (emdha)

Name	Signature	Date
Saleh (BTC)		1-1-2022
Saleh (emdha)		1-1-2022

Sales-01/R-1


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.

Show all certification paths found

- [-] Saudi National Root CA
- [-] BTC Licensed CA
- [-] EMDHA eSign CA
- [-] فداي صالح يوسف

Summary Details Revocation Trust Policies Legal Notice

 صالح فداي صالح يوسف Saleh Fdai Saleh Yousef
الرياض

Issued by: EMDHA eSign CA
Baud Telecom Company

Valid from: 2022/05/17 18:37:43 +03'00'

Valid to: 2022/05/17 19:07:43 +03'00'

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

Export...


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.

Show all certification paths found

- [-] Saudi National Root CA
- [-] BTC Licensed CA
- [-] EMDHA eSign CA
- [-] شركة بعد للاتصالات

Summary Details Revocation Trust Policies Legal Notice

 Baud Telecom Company شركة بعد للاتصالات
الرياض

Issued by: EMDHA eSign CA
Baud Telecom Company

Valid from: 2022/05/25 12:48:20 +03'00'


Valid to: 2022/05/25 13:18:20 +03'00'

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

Export...

Digitally Signed Document Final Result

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Telephone 011-4663000 Fax - Mobile 011-4663000

E-mail _____

Requirement:

S. No	Description	Quantity
1	Digital Signature Solution	10,000

Important Notes:

Prepared by Saleh (BTC)



Approved by Saleh (emdha)

Name _____

Signature Saleh Youssief


Date 1-1-2022

Date 1-1-2022

Sales-01/R-1




Signature Verification

+966 011 466 3000 Info@emdha.sa

Signer Details

The document was signed by **صالح فدائي صالح يوسف Saleh Fdai Saleh Yousef, SA**. The following are the details of the certificate used.

Signature Verified ✓

Version V3

Serial Number 803e6c94f3dfd7ef0df2059396ea9a30

Signature Algorithm SHA256withRSA

Issuer

CN=EMDHA eSign CA
 ORGANISATION = Baud Telecom Company
 COUNTRY = SA

Valid From 17 May 2022 18:37:43 +03:00

Valid To 17 May 2022 19:07:43 +03:00

Subject

CN=صالح فدائي صالح يوسف Saleh Fdai Saleh Yousef
 SERIALNUMBER=7993c09992c6166f45fd087a45d7d5acdd5d8d29cd9556e94f1fcb536f3cc99
 ORGANISATION UNIT = الرياض
 ORGANISATION = اعضاء تقنية المعلومات
 PSEUDONYM=11115
 OID.2.5.4.97=1010627971
 UNIQUE IDENTIFIER=0341003661313937383330666532346266306539376438396139313639356139...
 PHONE=aa637cfe14974860144a9c4200edee4ee61d6a0fc1030e86ce01c19cc1ccc61
 LOCALITY = Riyadh (Riyadh Principality)
 STATE = Riyadh
 COUNTRY = SA

Public Key Algorithm ECDSA (256)

Key Usage Digital Signature, Non-Repudiation

Thumb Print Algorithm SHA-1

Thumb Print b6 e8 26 98 74 81 11 d0 4c f5 7c 9f 87 41 77 99 63 78 6a e1



Subject Alternative Names [syoussef@emdha.sa]

Signed Document URL: Please click here to download the Signed document.

The document ID for the signed document is: 58b305778cb65924912b8f585a031c1e600a9397a4812aee66c0f3b09dce224

You can use this document ID to verify the authenticity of the signed document by comparing with the "Doc Id" present in the signature

For Example:

123456789abcdef123456789abcdef123456789ab
Document ID



نُفَعِّلُ الهوية الرقمية

Thank You...

Embrace
DIGITAL IDENTITY