Republic of Lebanon





Implementation of Lebanon's National Digital Transformation Strategy

Workshop 1

June 12, 2024



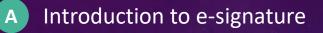


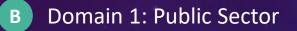
DAY 2





AGENDA











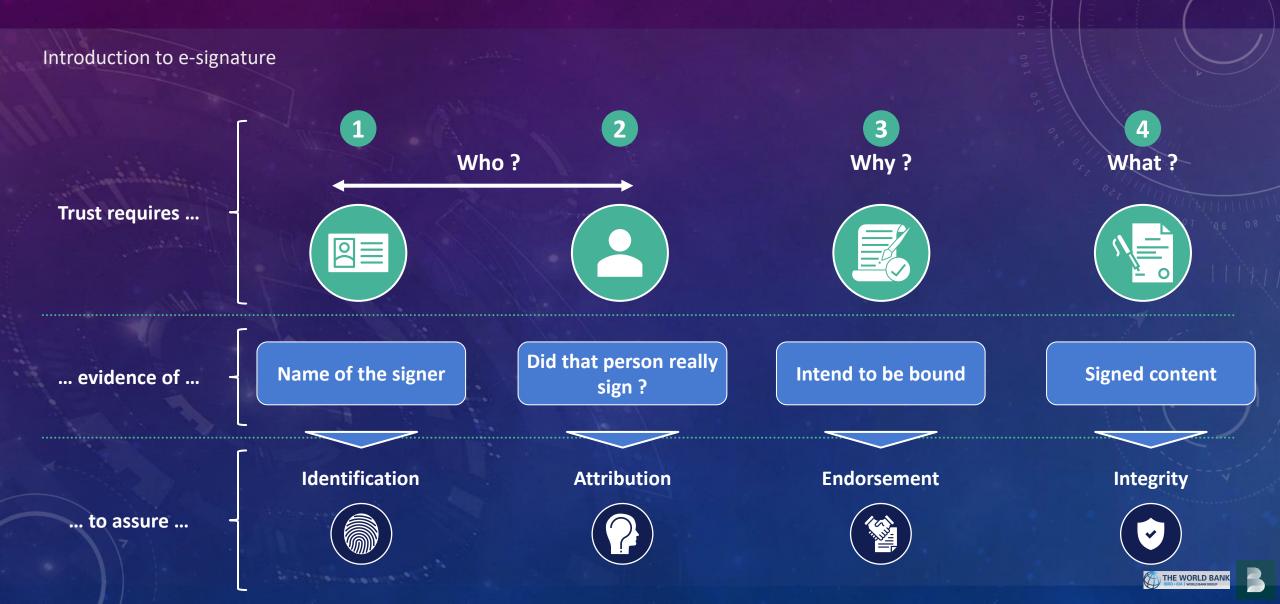


OVERVIEW OF THE ELECTRONIC SIGNATURE LANDSCAPE IN THE PUBLIC AND PRIVATE SECTORS





INTRODUCTION TO E-SIGNATURE





LEVELS OF ASSURANCE IN PRACTICE

The example of the European eIDAS regulation

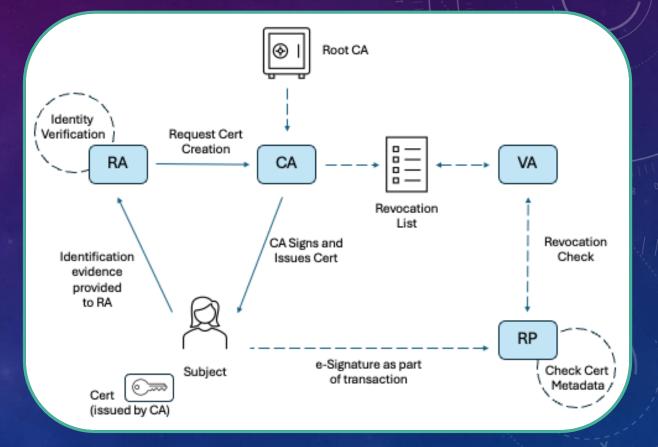
		Level of assurance	
Requirement	Low	Medium	High
Signer identity	none	Signer can be identified	Signer can be identified
Data integrity	none	Modifications after signing detectable	Modifications after signing detectable
User onboarding	none	none	Identity verification done face to face
Technology	none	none	Digital certificate (PKI)
Certificate issuer	none	none	Audited for compliance with rigorous standards
Signing device	none	none	High security device from approved list





IMPLEMENTING QUALIFIED E-SIGNATURE

- Data integrity is a common use of esignatures to ensure that transactions are tamper evident.
- E-signatures also form the basis of privacy preserving technologies and digital proofs for verifiable credentials.





INTRODUCTION TO E-SIGNATURE

Certificates can be issued by a government CA or a commercial CA depending on the Trust Framework.





THE E-SIGNATURE OF OFFICIAL DOCUMENTS SERVES AS A PIVOTAL CATALYST FOR THE DEVELOPMENT OF DIGITAL SERVICES IN THE PUBLIC SECTOR

Presentation of example use cases

Use cases addressed refer to the signature of public administration documents and certificates

Civil status



Identity documents (passport, national ID card issuance and renewal forms, driver's license applications and renewals...)



Life events (signing, approving and issuing birth certificates, marriage certificate, criminal records.....)

Civic acts documents (voter registration forms o, voting records, residency permit applications...

Certificates & recognition documents



Healthcare documents (signing social security card applications, approving vaccination records...)

Education (signing diplomas and academic certificates, approving school certificates and transcripts...)



Judiciary & notary

Court documents (signing court settlements and affidavits, approving and issuing court orders...)



Notary documents (signing wills and testaments, approving powers of attorney...)

Administration

Non-exhaustive



Public contracts (signing procurement contracts, approving tenders & PPP agreements...)



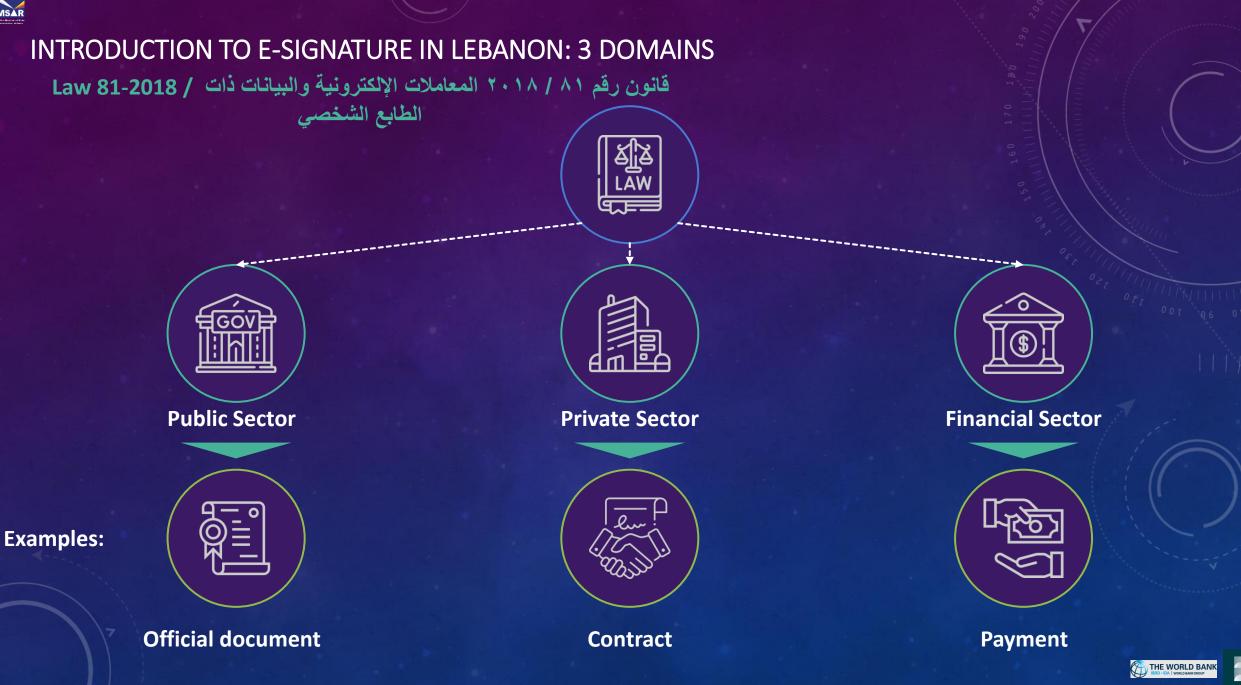
—*

HR management (signing employment contracts for civil servants, approving NDAs...)



Official correspondence (signing internal communications between public administrations, official correspondence with embassies...)





Annex: Translation of key technical terms from Law 81/2018

Original Arabic (in law 81)	Arabic Transliteration	(in law 81)	SMEX unofficial translation ¹⁶	terminology	Standard English definition
شهادة مصادقة	shahadat moussadaqa	N/A	"Certificate of Authentication"	Digital Certificate	Digital documents (issued by CAs/TSPs) that securely associa cryptographic key pairs, which can be used for digital signing, with identities, such as individuals or organizations.
	mouqaddem khadamat moussadaqa	"Certification Service Provider"	"Service Provider" and "Authentication Service Provider" used interchangeably	Certification Authority (CA)	A Certification (or Certificate) Authority (CA/TSP) is a trusted entity that issues digital certificates.
ئهادة إعتماد	shahadat i3timad	N/A	"Accredited certificate"	Accreditation	The process through which a CA/TSP is receives accreditatio as per law allowing it to issue trusted digital certificates in a given regulatory environment. Not all regulatory frameworks require an <i>ex-ante</i> accreditatio process as a condition for digit certificate issuance for all level of assurance.
بصادقة	mouqaddem khadamat moussadaqa mou3tamad	N/A	"Authorized Authentication Service Provider"	Accredited (or Authorized / Approved) Certification Authority ¹⁷	Accredited (or Authorized or (Approved) CAs (or TSP), which can issue certificates that can b used for electronic signature creation. The approval may require a formal accreditation process depending on regulation.
مصادقة غير	mouqaddem khadamat moussadaqa ghayr al mo3tam <mark>ad</mark>	N/A	"Unauthorized Authentication Service Provider"	Certification Authority (that has not undergone an accreditation process)	CAs (TSP) that have not undergone an accreditation process to issue high-trust digit certificates. Accreditation may not be a requirement to provid e-signature services in a given regulatory regime.

DEMYSTIFYING LAW 81'S TERMINOLOGY





DOMAIN 1: PUBLIC SECTOR





WHY IS THE LAW IMPORTANT FOR E-SIGNATURE ANYWAY? لماذا يعتبر القانون مهماً للتوقيع الإلكتروني؟

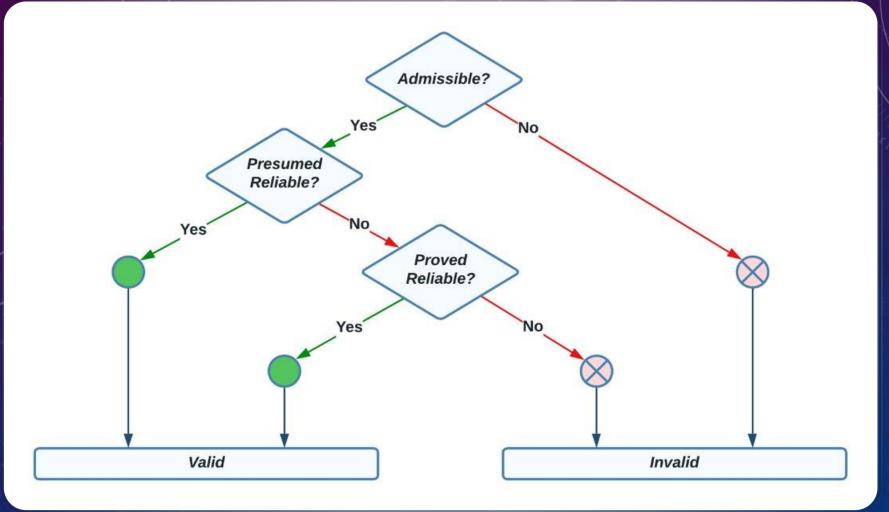
ضمان موثوقية التواقيع الإلكترونية Reliability قبول التواقيع الإلكترونية كدليل في المحكمة Admissibility of Evidence

> اعتبار ها موازية للتواقيع اليدوية Functional equivalence





TECHNICALLY, COURTS WILL LOOK AT IT THIS WAY:







المادة ٤:

تتتج الكتابة والتوقيع الالكتروني ذات المفاعيل القانونية التي تتمتع بها الكتابة والتوقيع على دعامة ورقية أو أي دعامة من نوع آخر، شرط أن يكون ممكناً تحديد الشخص الصادرة عنه، وأن تنظم وتحفظ بطريقة تضمن سلامتها.

يمكن أن تعتبر بداءة بينة خطية كل كتابة الكترونية لا تتوافر فيها الشروط المذكورة اعلاه.

المادة ٨:

لا تتتج الاسناد الرسمية الإلكترونية أية مفاعيل قانونية إلا بعد إقرارها وتتظيمها بمرسوم يتخذ في مجلس الوزراء بناء على اقتراح وزير العدل.

ينظم هذا المرسوم الإجراءات الخاصبة والضمانات المتعلقة بهذه الاسناد ونطاقها.

RELEVANT ARTICLES FROM LAW 81-2018



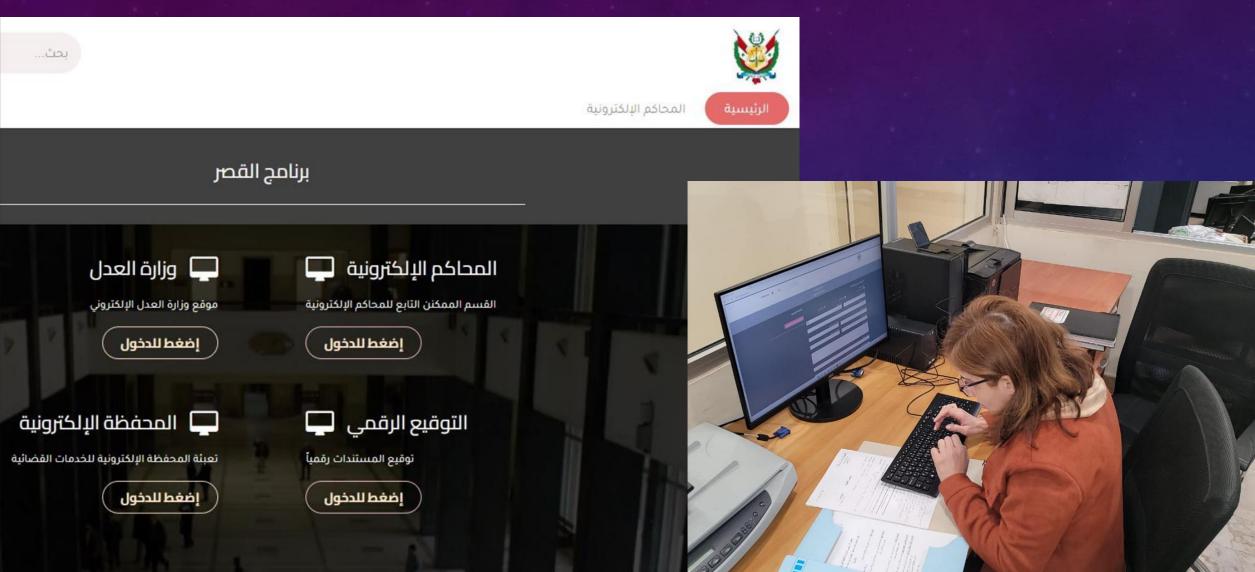
E-COURTS SERVICES

DIGITAL ID - QUALIFIED SIGNATURE





MPLEMENTATION OF QUALIFIED SIGNATURE IN COURTS





Service Provider

E-Court System

Inter-Operability

- Digital ID
- Digital Signature
- Cyber Security

- Case Management
- Court E-Wallet
- Portal Access

- Ministry of Finance
- ISF
- NSSF
- Others



Service Provider

Republic of Lebanon

Digital IDDigital SignatureCyber Security

DMIN 🌣			Groups 52	Access Rights 1,182	Record Rule
cner ?	SJC ADMIN				
Access Rights	Preferences	Account Security			
OCALIZATION					MENUS CU
anguage ? Eng	lish (US)			- 0	Home Actio
Notification [?]	 Handle by 			LOg ▲ Usemame	in to Ciel
Email Signature ?	 Administrator	سیالتک ذ.م.م		Password	Forgot Passwo
DIGITAL SIGNATU					LOG IN an account? Sign Up
Digital Signature	,				





المحاكم المحاكم ذات الصلة بالحساب الإلكتروني



القضايا والمعاملات اسربيسه بانج

- Case Management
- Court E-Wallet
- Dortal Access

E-Court System

OMSAR

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		كالبري مرالأ	296 08/05/2024		Zu cé trulluci		وماولة وريدة		



New

Webhook Automations

New 🌣

0 0

Logs

Inter-Operability

- Ministry of Finance
- ISF
- NSSF
- Others

Trigger ?	On webhook	Target Record ?
URL ?	https://www.courtlb.org/web/hook/b3ee8e85-9a34-4a3e-b1fa-dc2af532356e	<u>Ъ</u> Сору
	■ Keep it secret, keep it safe.	
	Your webhook URL contains a secret. Don't share it online or carelessly.	
	C Rotate Secret	
c 11 ²		
Log Calls [?]		





E-COURTS SERVICES LAUNCH DATE 15/9/2024





DOMAIN 2: PRIVATE SECTOR





THE E-SIGNATURE OF OFFICIAL DOCUMENTS SERVES AS A PIVOTAL CATALYST FOR THE DEVELOPMENT OF DIGITAL SERVICES IN THE PRIVATE SECTOR

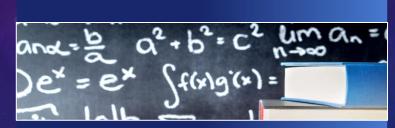
Presentation of example use cases

Use cases addressed refer to the signature of private sector documents and contracts

Health



- Health screenings (health history questionnaires, surveys)
- Consent for medical procedures
- **Prescriptions** for controlled substances
- Consent for medical directives with legal implications (end-of-life decisions, complex directives)
- Agreements for clinical trials or medical research



Education

Course enrollment

•••

- Student registration forms
- Online exam submissions
- Approving student loan applications and financial aid documents
- Signing internship agreements & placement forms
- Approving and submitting academic research papers and thesis documents

Commerce

Non-exhaustive

THE WORLD BAN



- Online order confirmations
- Acknowledging and accepting terms and conditions
- Signing non-disclosure agreements (NDAs)
- Signing and executing typical contracts
- Signing deeds, mortgages, or other real property documents



ZOOM ON GOVERNANCE





SOURCES OF TRUST

Extension of trust



Providers of e-signature services are trusted and vetted.

Process

Identity checks carried out when onboarding a signer.

Technology

Technical measures to protect the integrity of the signed document

Pre-existing trust



- Do I know you offline?
- Have we interacted successfully online before?
- Do we have a pre-existing contractual relationship?
- Are we members of the same professional body?
- Are we transacting on a secure communication channel?





Extension of trust



People

Providers of e-signature services are trusted and vetted.



Process

Identity checks carried out when onboarding a signer.



Technology

Technical measures to protect the integrity of the signed document

TRUST FRAMEWORK

- Set standards
- Balance security and usability
- Clarify roles and responsibilities
- Promote adoption
- Risk-based levels of assurance
- Flexible to allow innovation
- Technology neutral





Legal Framework

Legal effect

- Enforceability
- Admissibility as evidence
- Presumption of validity

Trust Framework



Laws Regulations

Mutual recognition

- Interoperability across sectors
- Scaling trust across borders





GOVERNANCE REGIME

Dimension Au	thority level 🚺	Example
Law		elDAS: Electronic lo
Standards/guidance	EU	ETSI: European Tele
Supervisor		ANSSI: Agence Nat (National Agency fo
Accreditor		COFRAC: Comité Fr
Auditor		3 private providers
Certification authority	France	30 private and pub
Certificate		User

Identification, Authentication and Trust Services.

lecommunications Standards Institute

tionale de la Sécurité des Systèmes d'Information for the Security of Information Systems).

Français d'Accréditation (French Accreditation Committee)

blic providers



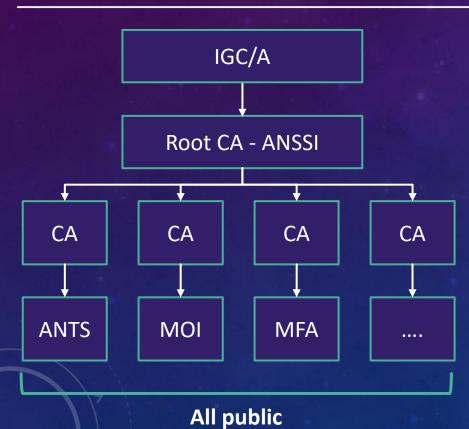
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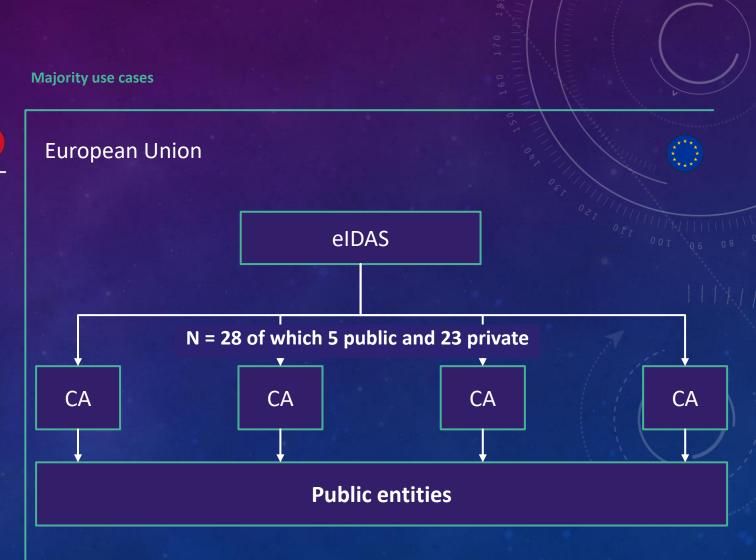


FRANCE CASE STUDY

Minority use cases for example inter-ministerial communications

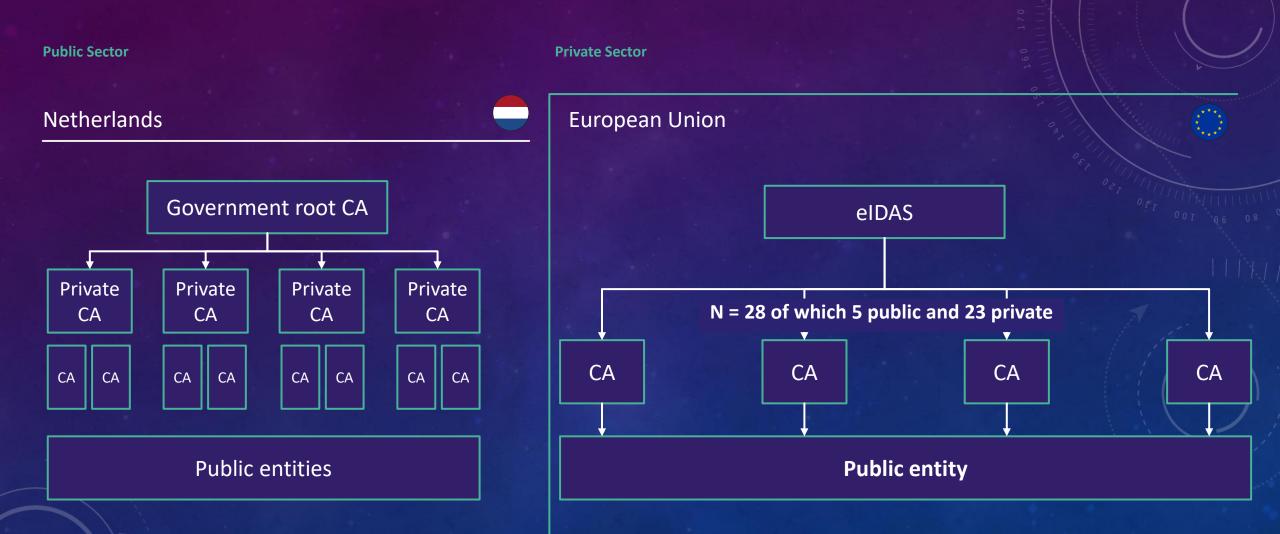








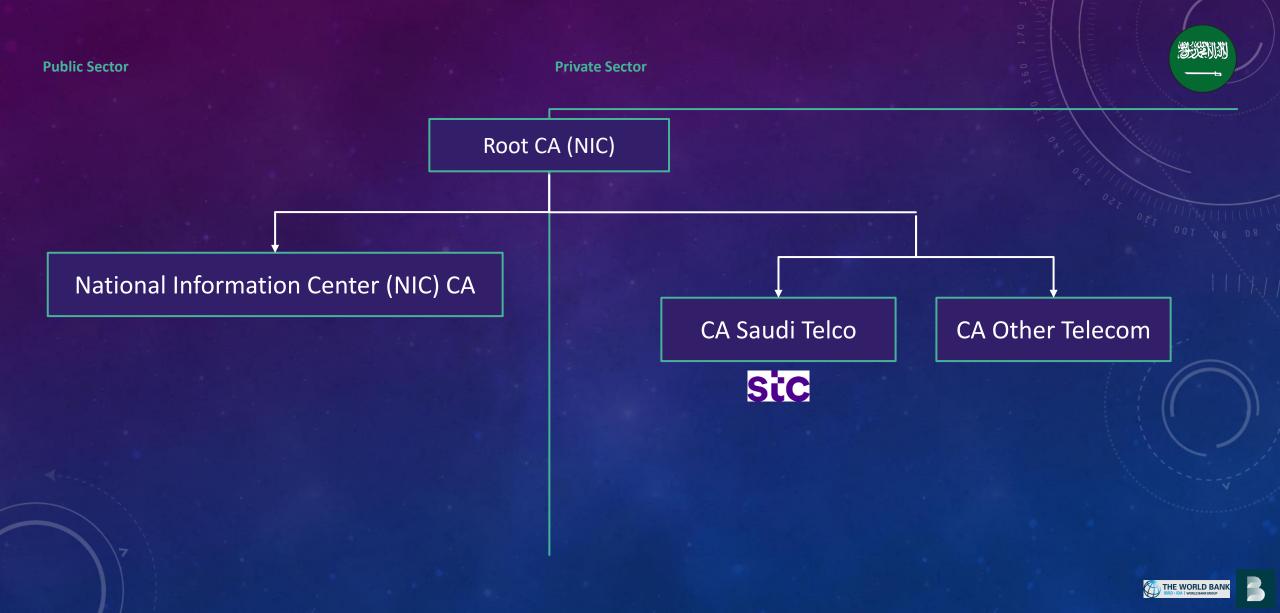
NETHERLANDS CASE STUDY





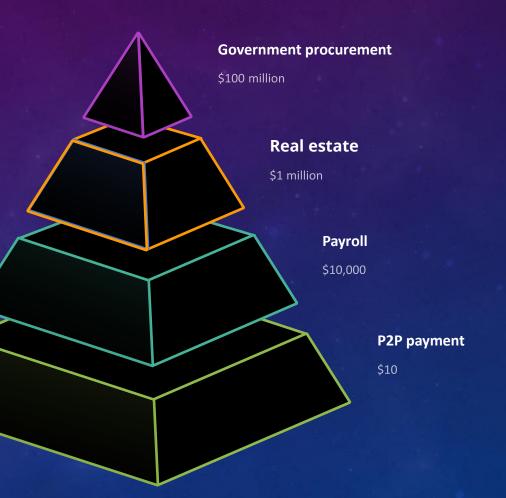


SAUDI ARABIA CASE STUDY



USE CASES OF E-SIGNATURES

The majority of e-signature use cases are relatively low risk. However, very high value transactions can also be signed electronically if there is enough trust.







DOMAIN 3: FINANCIAL SECTOR

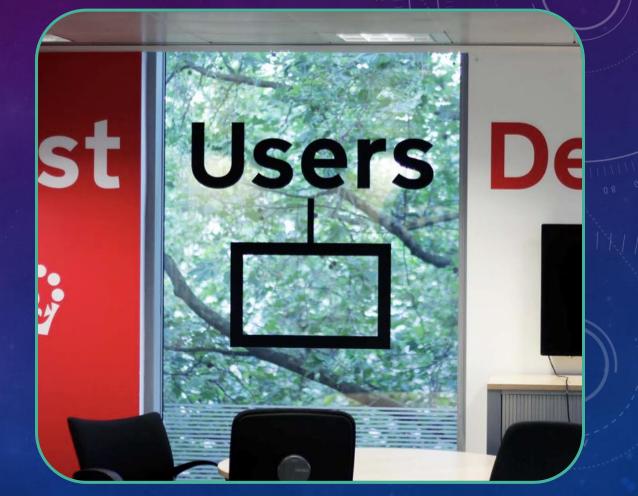




DIGITAL ID AS AN ENABLER FOR DIGITAL TRANSFORMATION

Digital ID is the great enabler. It makes it possible for individuals to engage with digital transactions remotely and at high levels of trust.

Being able to reliably prove who we are also means that **trusted data** can be shared as part of these **rich transactions**.







e-KYC and Digital Signatures Policy Aspects and International Experience

Fredesvinda Montes, Senior Financial Sector Specialist, The World Bank

Lebanon, June 2024







FATF DIGITAL ID GUIDANCE: RECOMMENDATIONS

E-KYC means establishing business relationships and conducting customer due diligence (CDD) by way of electronic means, including online channel and mobile channels.

1.

3.

5.



Authorities

- 1. Develop clear guidelines allowing the risk-based use of reliable and independent Digital ID systems by entities regulated for AML/CFT purposes.
- 2. Assess existing regulations so that nonface to face onboarding may be standard or low risk when a Digital ID with appropriate levels of assurance are used for remote identification/verification.
- 3. Adopt principles, performance, and/or outcomes-based criteria
- 4. Develop an integrated multi-stakeholder approach to understanding and mitigating risks.

Regulated Entities

- Take informed RBA to relying on Digital ID systems for CDD that includes;
 - Understanding LoAs for identity proofing and authentication
 Ensuring that the LoAs are adequate to the jurisdiction, product, customer etc.
- 2. Consider if ID systems with lower LoA may be appropriate for SCDD in cases of low ML/TF risk.
 - Review policies if non-face to face onboarding or transactions are always considered high risk even when relying on Digital ID.
- Adopt anti-fraud and cybersecurity measures
 - Enable a process for authorities to obtain, the underlying identity information needed for identification and verification of individuals.

ID Providers

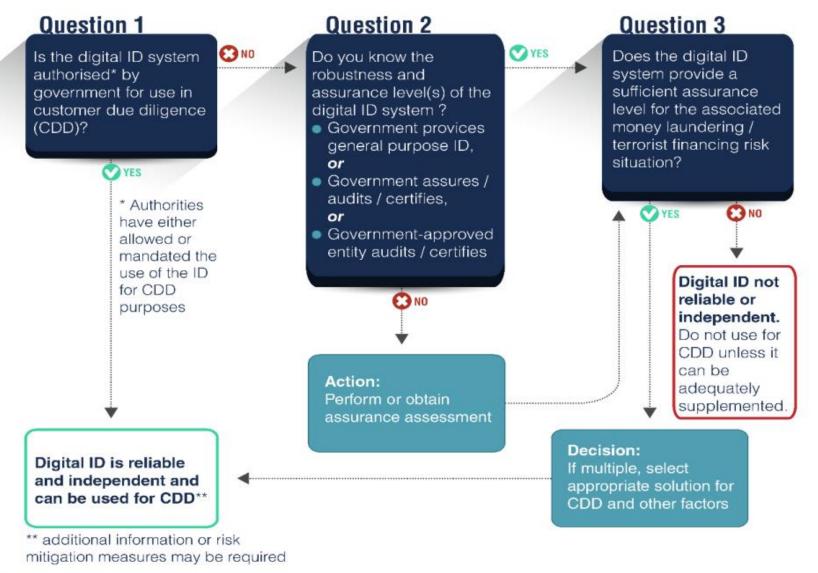
- 1. Understand the AML/CFT requirements for CDD
- 2. Seek assurance testing and certification by the government or an approved expert body
- 3. Provide transparent information to AML/CFT regulated entities and foster federation and interoperability







DIGITAL ID GUIDANCE: ASSURANCE DECISION FRAMEWORK



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International harmonization of e-Commerce law

- UNCITRAL Model Law on Electronic Commerce (1996) text and list of enacting states available at www.uncitral.org/uncitral/en/uncitral_texts/electronic_commerce/1996Mo del.html
- UNCITRAL Model Law on Electronic Signatures (2001) text and list of enacting states available at www.uncitral.org/uncitral/en/uncitral_texts/electronic_commerce/2001Mo del_signatures.html
- United Nations Convention on the Use of Electronic Communications in International Contracts (2005) text and list of signatory states available at http://www.uncitral.org/uncitral/en/uncitral_texts/electronic_commerce/20 05Co





Types of Signatures



HANDWRITTEN SIGNATURE

Objective; Proof the intent to approve the content of a document

(i) Requires presence of the signee;

(ii) Can be easily forged or tampered;

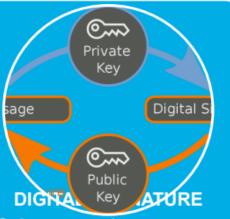
(iii) Can be held upon in Court



ELECTRONIC SIGNATURE

• (I) Electronic representation of a signature

(ii) does not confirm the content of the document
(iii) does not provide security and assurance



(I) Scheme used to authenticate the sender of an electronic document

(ii) Requires a PKI Infrastructure

(iii) The document is authentic and comes from a verified source

(iv) The document has not been tampered with since being digitally signed as the signature would be displayed as invalid if changes were made

(v) The identity has been verified by a trusted organization (the CA)

Identification (=be recognized) Vs Authentication (=be in posession of credentials)



Key Elements of a Signature

- ANALOGIC ENVIRONMENT- When a document is signed before a notary public (notary or public broker), the signatures contained therein acquire a presumption of attribution and, therefore, the document as a whole obtains a presumption of integrity. It is considered complete and authentic. In other words, the intervention of a public notary confers validity and authenticity to the document.
- DIGITAL ENVIRONMENT- Model Law on Electronic Signatures, article 6(3) (Compliance with requirement for signature):
- (a) signature creation data must be linked to the signatory and to no other person;
- (b) signature creation data must be under the control of the signatory at the time of signing;
- (c) alterations to the electronic signature made after the time of signing must be detectable;
- (d) where legal signature requirement aims at assuring integrity of the information, any alteration to the information must be detectable.







Legal Approach to e-signature

Prescriptive

- Specific technology
- Typically, digital signature

2 tier Approach

- Legal presumption on one technology
- Accepts others

Argentina, Brazil, Chile, Tunisia, South Africa, Japan Spain, UK, France, NL, Mexico, Singapore, Thailand Principle Based

- Sets requirements
- Technology neutral
- Flexibility of adoption

Australia, Canada, New Zealand US





Levels of Digital Signature

- **Digitized Signature** (so-called also electronic signature): an electronic representation (applied image) of a handwritten signature. The image may be created by various methods, such as a signature pad, scanning a wet signature, or digital photography. Lowest level of assurance
- **Electronic Signature**' means data in electronic form which is attached 2. to or logically associated with other data in electronic form and which is used by the signatory to sign. Button, PIN, Biometric, or Token: a frequently used e-signature methodology includes clicking a button or entering a unique personal identification number (PIN), electronic identification, token, or biometric scan at the completion of an entry for the signature process. Medium level of assurance. It very much depends on the authentication factors selected.
- **Digital Signature:** a digital signature is a cryptographic signature (a 3. digital key) that authenticates the user, provides nonrepudiation, and ensures message integrity. This is the strongest signature because it protects the signature by a type of tamper-proof seal that breaks if the message content were to be altered. Highest level of assurance WORLD BANK GROUP







Authentication Mechanisms (ID4D)

Туре	Mechanism	Compatible Credentials/Authenticators	System Requirements
Matching against a database	Comparison of authentication factors to references stored in a central system	Numbers, user names, etc. + authenticators (e.g., PIN, biometric, password)	Input devices (i.e., keypad/board and/or biometric scanners) and secure network connection of relying party to central system
Public key infrastructure (PKI)-based	Using public key encryption to authenticate against a server	Smartcard, card with 2D barcode, SIM card, or mobile device + authenticators (e.g., PIN, biometric)	Input devices (i.e., personal card reader/scanner, text pads and/or fingerprint scanners), PKI and secure network connection of relying party to central system
One-time passwords (OTP)	Password or PIN generated on demand for one-time use	Device that can receive the password (e.g., SMS on a mobile phone or smartphone/computer to receive an email or smartphone ap that generates an OTP)	OTP infrastructure and secure network connection of relying party to central system
FIDO authentication	On-device match (fingerprint, iris, face, PIN) unlocks a private key used to authenticate against a server	FIDO-certified smartphone (e.g., Android, Windows) or external authenticator such as a FIDO Security Key + authenticators (biometrics or PIN)	FIDO-certified smartphone (e.g., Android, Windows) or external authenticator such as a FIDO Security Key, plus network connection between that device and the relying





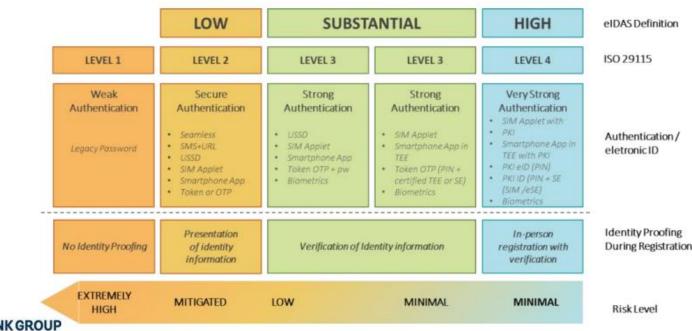


Guidance on Authentication; How is it done in practice





Assurance that the at the individual asserting identity for account authorization controls an authenticator(s) bound to the subscriber's account









Use cases

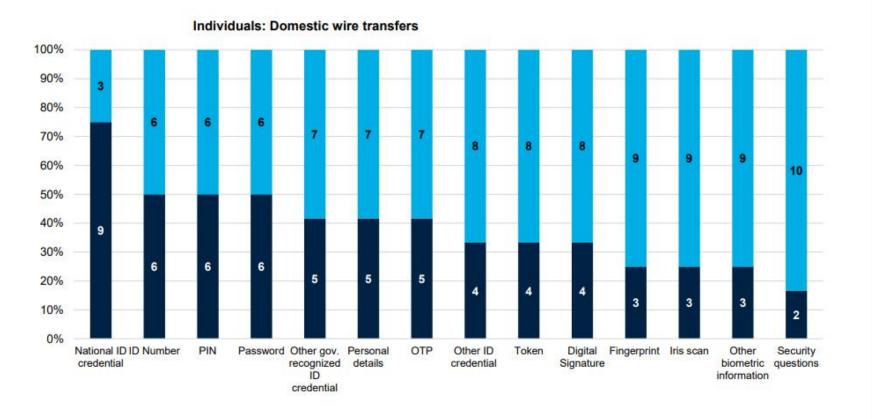
Type of Service	Low/Medium LA	High LA
Deposit	Individuals	Legal entities
Savings	Online transactions	
Payments	Basic accounts, fund transfers	Cross-border payments Wire transfers (except credit cards)
Credit and Loan Services	Loan application, credit cards	Mortgage, vehicle, Loans, commercial loans
Wealth Management		Trusts, stock account opening, retirement mutual funds
Insurance	Application, renewal, coverage changes	
C.	e-signatures accepted	Digital signatures required
WORLD BANK GROUP		







Types of Authentication Factors Used



No

Yes





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ئهادة إعتماد	shahadat i3timad	N/A	"Accredited certificate"	Accreditation	The process through which a CA/TSP is receives accreditatio as per law allowing it to issue trusted digital certificates in a given regulatory environment. Not all regulatory frameworks require an <i>ex-ante</i> accreditatio process as a condition for digit certificate issuance for all level of assurance.
بصادقة	mouqaddem khadamat moussadaqa mou3tamad	N/A	"Authorized Authentication Service Provider"	Accredited (or Authorized / Approved) Certification Authority ¹⁷	Accredited (or Authorized or (Approved) CAs (or TSP), which can issue certificates that can b used for electronic signature creation. The approval may require a formal accreditation process depending on regulation.
مصادقة غير	mouqaddem khadamat moussadaqa ghayr al mo3tam <mark>ad</mark>	N/A	"Unauthorized Authentication Service Provider"	Certification Authority (that has not undergone an accreditation process)	CAs (TSP) that have not undergone an accreditation process to issue high-trust digit certificates. Accreditation may not be a requirement to provid e-signature services in a given regulatory regime.

DEMYSTIFYING LAW 81'S TERMINOLOGY





المادة ٤٨:

تُعطى أوامر إجراء عمليات الدفع والتحاويل الإلكترونية للأموال النقدية، كتابةً ، موقعة يدوياً أو الكترونياً تحت طائلة بطلانها.

اذا تتم إعطاء هذه الأوامر وتوقيعها إلكترونياً، يجب أن يكون هذا التوقيع مصادقاً عليه وفق القواعد الصادرة عن مصرف لبنان.

المادة ١٣٣:

استثناءً لما ورد في المادة ٢٠ وما يليها من مواد واردة في الفصل الرابع من هذا القانون<mark>، يعود</mark> لمصرف ليذان، في ما يتعلق بالعمليات المالية والمصرف<mark>ية اعطاء</mark>:

٩- شهادات المصادقة العائدة للتواقيع الإلكترونية للمصارف وللمؤسسات الخاضعة لرقابته ولرقابة هيئة الأسواق المالية وللمؤسسات وللإدارات وللهيئات التي يتعامل معها وفقا للقوانين التي ترعى عملياته.

- شهادات الاعتماد للمصارف وللمؤسسات الخاضعة لرقابته ولرقابة هيئة الاسواق المالية،
بصفتها مقدم خدمات مصادقة اللتواقيع الإلكترونية لزبائنها.

يضع مصرف لبنان المعايير والقواعد التقنية للإجراءات المنصوص عنها في هذه المادة.

RELEVANT ARTICLES FROM LAW 81-2018



ZOOM ON CDD AND EKYC





When is CDD Required - FATF

Financial institutions should be prohibited from keeping anonymous accounts or accounts in obviously fictitious names.



Business Relation

Face to Face & remote onboarding



Occasional Transaction

Wire Transfers

(domestic and

International)

10,000 EU/USD

Check cash in Deposit , bill payment +15,000 EU or USD (R16)



Suspicion of ML or FT

Patterns



Frequency *2 years, 5 years)





R10



When is Authentication Required - FATF

CDD Requirements

Key Components of Digital ID

Identification/Verification R.10

Financial institutions should be prohibited from keeping anonymous accounts or accounts in obviously fictitious names. Identity Proofing- Who are you? Obtain attributes (name, DoB, ID # etc.) and evidence for those attributes; validate and verify ID evidence and resolve it to a unique identityproofed person.

Binding- Issue credentials or authenticators linking the person in possession of the credentials to the on-boarded customer/account

Authentication- Are you the identified person? Who you claim to be? This applies if the regulated entity is verifying customer's possession of a preexisting customer credentials.





Risk Based Approach - Level of CDD



Simplification – In **Lower Risk** situations: identification and verification is the bottom line; other CDD measures may be subject to simplification.

Exemption - Only in proven **Low Risk** situations, on a limited basis, for certain type of institutions and activities.







RBA to Customer Due Diligence

Simplified (Low Risk of AML/CFT) (Some countries dive this into tiers see Tiered SCDD)	Standard	Enhanced (Higher Risk of AML/CFT)
NRA conducted at count	try level but also take into considerati	on Global AML risks
No doubt of suspicious activities	All Aspects of CDD are addressed when starting a business relation with the client	Sector, country or client included in the list of high risk.
Simplified requirements are balanced with mitigating measures (thresholds in amounts and usage)	Full suite of requirements but ceilings are higher on amounts and usage	More rigorous procedures por account opening. Constant monitoring Frequent reporting to authorities
Low risk scenarios (risk, probability, consequences) G2P	Medium risk scenarios (risk, probability, consequences) Domestic wire transfers	Higher risk scenarios (risk, probability, consequences) Cross-border payments
Example of relaxed requirements; Declaration of name and address or on beneficial ownership just declaring as acting on his/her behalf. Some data is verified other not	Data declared by the client needs to be verified. Documents provided by the client need to be validated	Same as standard plus additional monitoring of the account is necessary, observing patterns etc and reporting to financial authorities

*Note- When applying technology such as Digital ID some scenarios classified as high could be classified as lower risk or low. Also note that there are some situations completely excepted from CDD requirements from AML but may be not from fraud.



5



Criteria to classify the types of accounts/clients

Type of Risks

· Some examples- Corruption, fraud, forgery

Geographical

- · List of countries with preferential tax regimes, drug transit, terror financing
- · Countries with bank secrecy
- · High volume of international remittances
- · Free trade, ability to create complex legal entities easily
- Cash intensive economies
- Non-residents

Client

- Individual (PoConcern, resident, non-resident)
- · Legal entities (trusts, limited companies, licensed vs registered)
- · Gatekeepers (accountants, lawyers, trustees and notaries
- Politically Exposed Persons (PePs)

Product (High Cash deposits-, Medium – POS withdrawals Low-payrol)

- · Cross border transactions, cash,
- High speed movement of funds
- Easy to trace or not





Considerations for Country Implementation

SCENARIO	IDENTIFICATION/ VERIFICATION	AUTHENTICATION
G2P	Apply Tiered approach to SCDD (Proof of ID + Proof of address could be waived) Selfies and Videoconference + ID scan	MFA but maybe no need for biometrics if not available
Internet Banking	Alternative ways and information could be used if available Verification of information through third parties (e.g. telecommunication operators)	Biometrics alone MFA but selection of factors avoid contact
Occasional Transactions	Walk in or remittances (exemptions to verification based on thresholds)	No need for authentication
E-wallets	Delayed verification of ID Allow to collect purpose and nature	Biometrics through cell phone credentials





E-KYC Examples for Account Onboarding

Biometrics (facial, fingerprint)

Document authentication

Liveliness detection

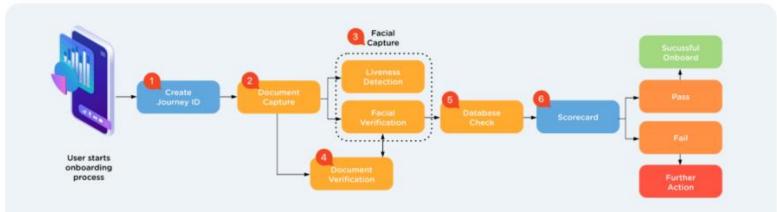
Digital Breadcrumbs

Trusted data sources

















LOOKING AHEAD





WORKSHOP SERIES (TENTATIVE)







Thank you

Lebanon Digital Transformation Strategy

2020 - 2030

