

# eIDAS2.0とEUIDWにみる トラストの検討

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# Trust of the Products and Services

# First of All – “Trust” and Framework

- Technology
  - PKI, VC, DID, DLT
- Assessment
  - TTP, Self-declaration
- Standardization
  - ETSI, CEN, ISO, W3C, IETF, JIS,
- Legislation
  - Legal Certainty

eIDAS, a Framework for Trust  
services and eID

# eIDAS regulation

- *Recital (1) of eIDAS*

*Building trust in the online environment is key to economic and social development. Lack of trust, in particular because of a perceived lack of legal certainty, makes consumers, businesses and public authorities hesitate to carry out transactions electronically and to adopt new services.*

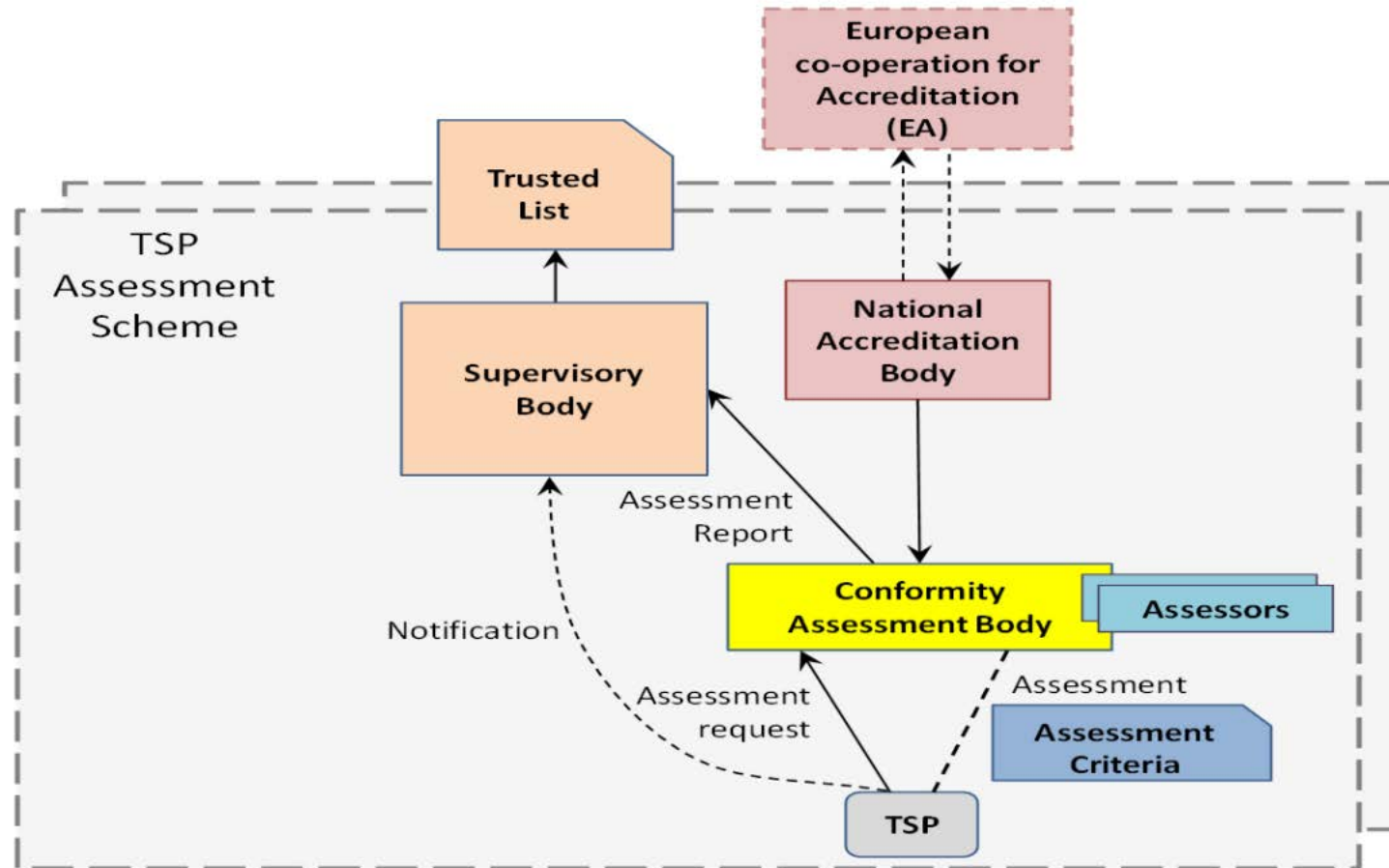
(和訳)

オンライン環境における信頼の構築は経済と社会の発展の鍵である。信頼の欠如、特に法的安定性の欠如が消費者、企業、公的機関に電子取引や新たなサービスの採用を躊躇させている。

# eSignature Directive - eIDAS

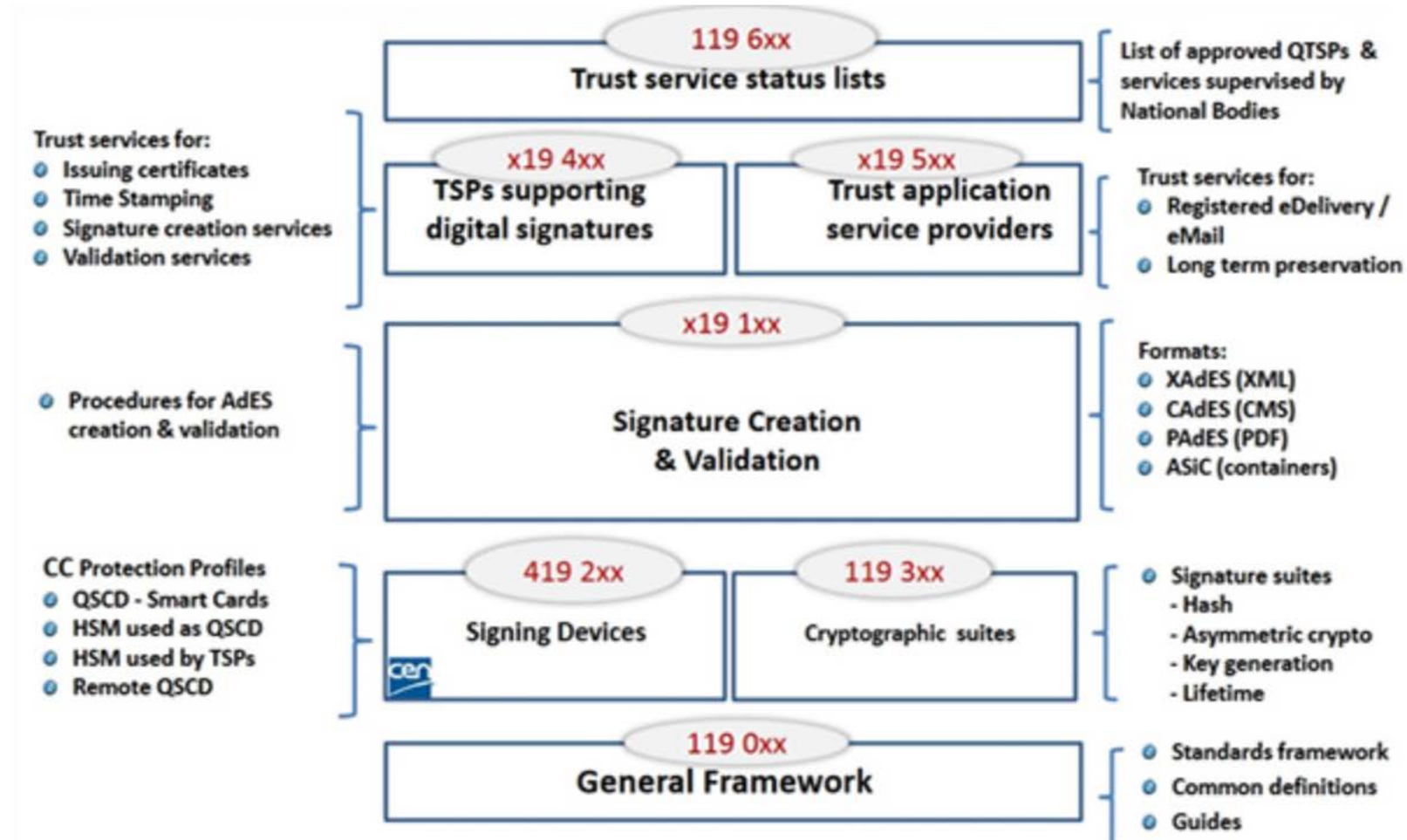
	eSignature Directive	eIDAS regulation
Scope	electronic Signature	Trust Services (eSig, eSeal, Timestamp, QWAC, eDelivery, Validation, Preservation) + eID
Defines	Simple, Advanced and Qualified	+ Uniform legal requirements and legal value for Trust services. + Three eID assurance levels and notification scheme.

# eIDAS Assessment framework



Source: ETSI(<https://www.etsi.org/>)

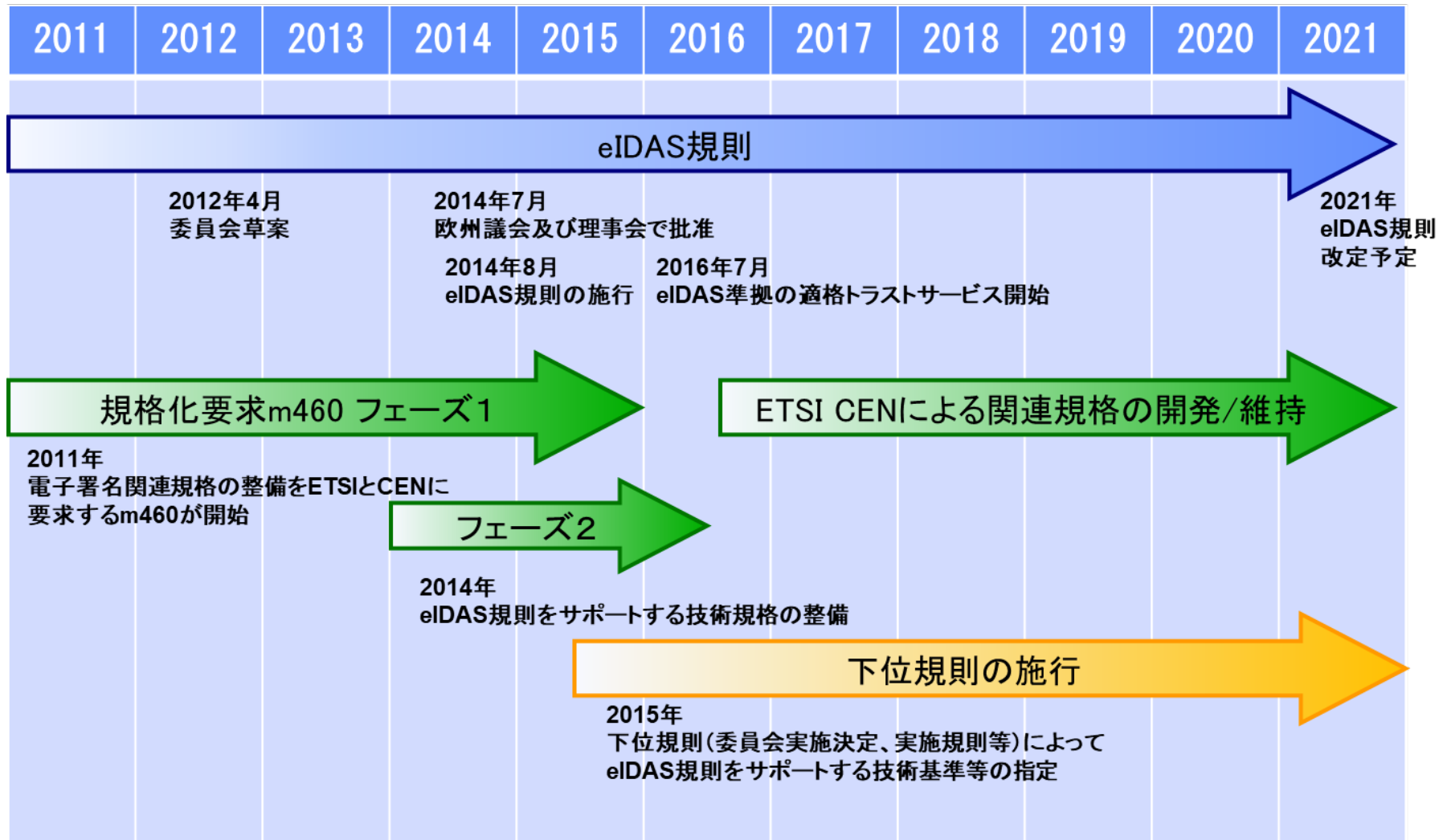
# Standardization for eIDAS



Source: ETSI(<https://www.etsi.org/>)



# Standardization for eIDAS



From eIDAS to eIDAS2.0

# eIDAS - eIDAS2.0

	eIDAS regulation	eIDAS 2.0
Scope	Trust Services (eSig, eSeal, Timestamp, QWAC, eDelivery, Validation, Preservation) + eID	Trust Services (+eLedger, eArchive, eAA, management of rQSCD) + eID and DIW
Defines	<ul style="list-style-type: none"><li>+ Uniform legal requirements and legal value for Trust services.</li><li>+ Three eID assurance levels and notification scheme.</li></ul>	<ul style="list-style-type: none"><li>+ Uniform Technical requirements.</li><li>+ Introduction of DIW.</li><li>+ requirements to Platform(Browsers and Mobile phone)</li></ul>

# Perspective 1: Trust services in eIDAS and eIDAS2.0

## New Trust Services

- Electronic Attestation of Attribute
- Electronic Archive
- Electronic Ledger
- Management of rQSCD

Is eIDAS successful?

Do we need legislation for these trust services too?

# Perspective 2 : EU and Platform

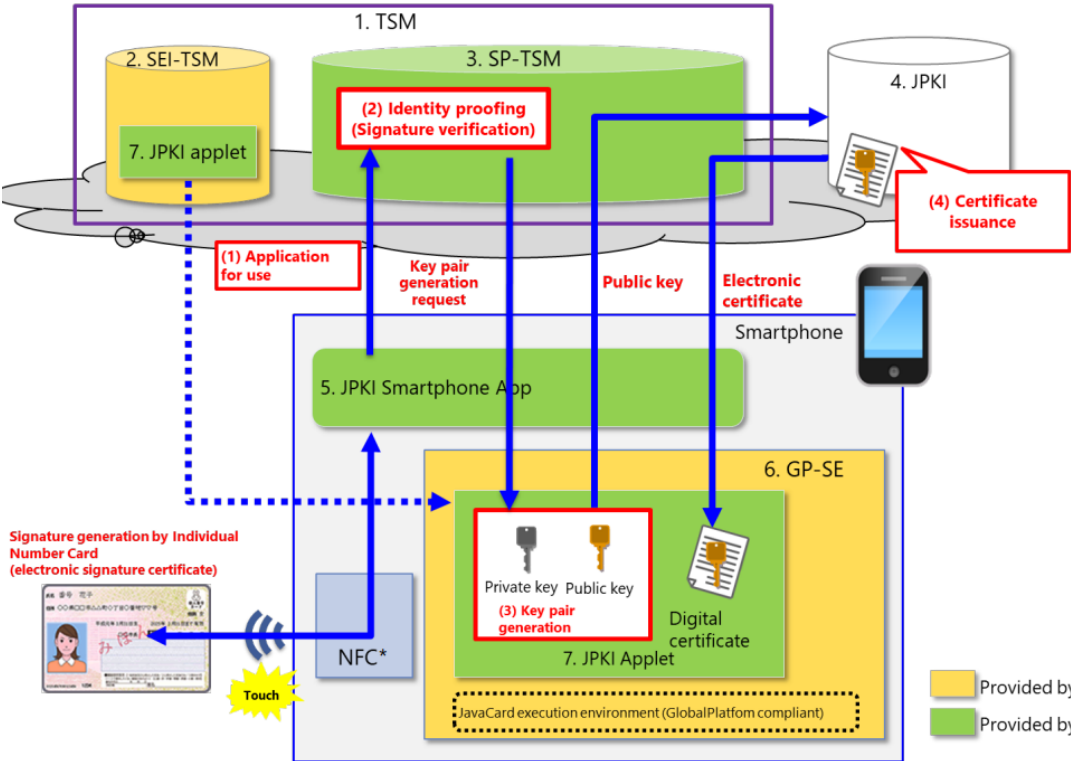
	Digital Service Act	Digital Market Act
Objective	To enable competition by making it easier for new platforms to enter the market	To enable transparency, user safety, and platform accountability

## eIDAS2.0 and Platform

- Trust Anchor
  - QWAC, Root Store, Trusted List, VDR
- Identity Wallet
  - SE, TEE and Platform

# Does it matter?

- The Japan Times: Apple CEO Tim Cook conveyed concern over App Store curbs in meet with Kishida



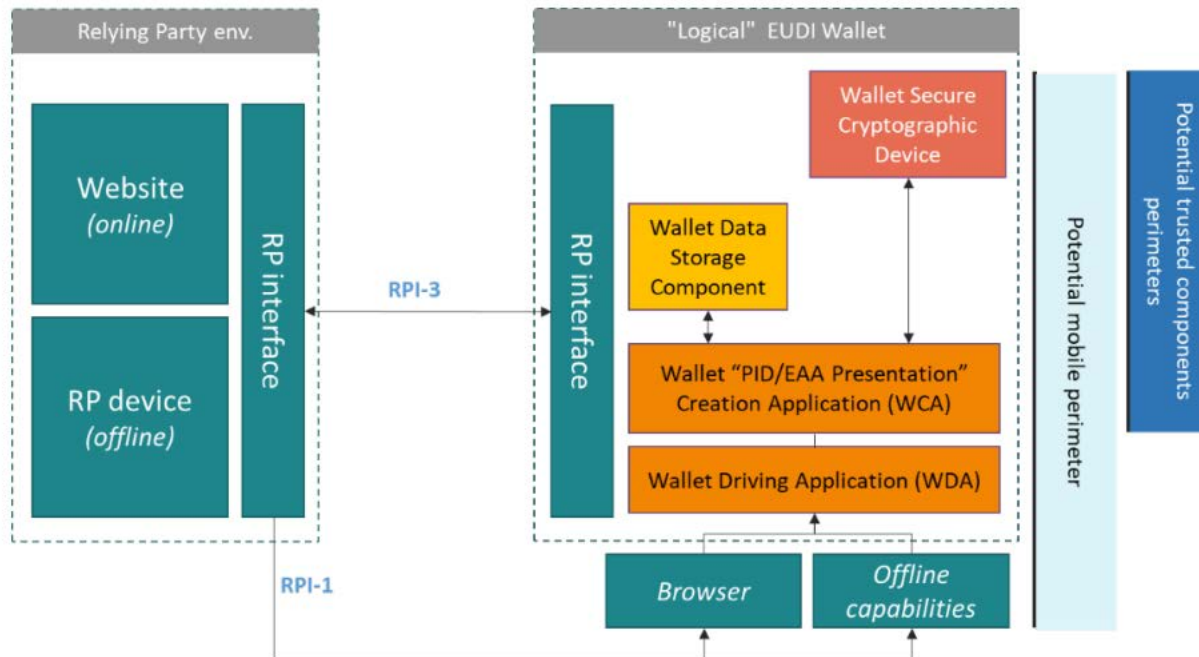
\* Type B is used.

Source from MIC(<https://www.soumu.go.jp/>)



Source from X(<https://twitter.com>)

# EUDIW?



## Cryptographic keys management system

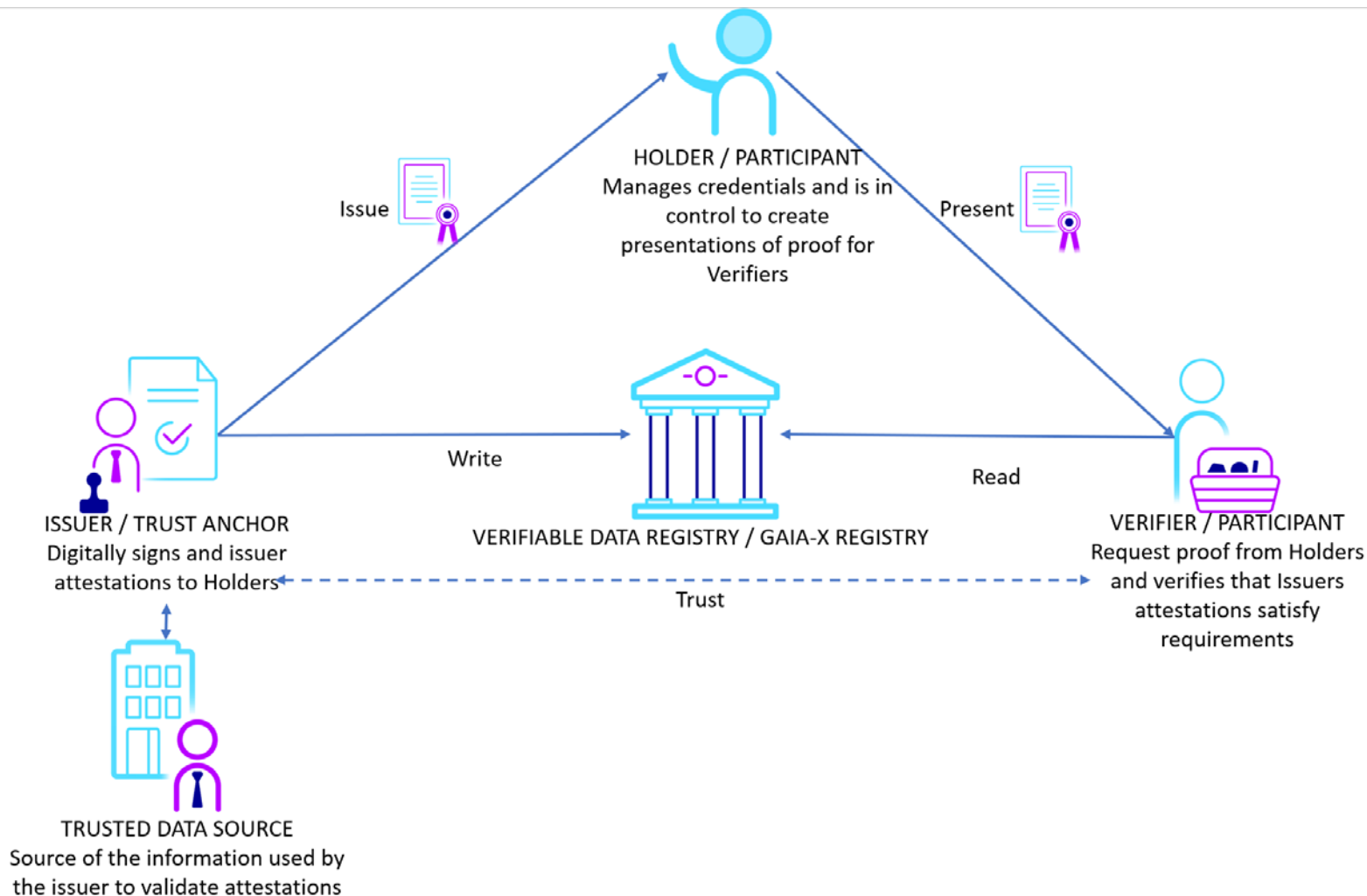
Embedded Secure Element or Trusted Execution Environment

reliance on an external device (Secure Elements / Smart Cards), and

a backend (remote Hardware Security Module).

Source: ARF (<https://github.com/eu-digital-identity-wallet/eudi-doc-architecture-and-reference-framework/>)

# Perspective 3: VC and eIDAS



Name	Defined as
State	The Trust Service Providers (TSP) must be a state validated identity issuers or EV SSL issuers. <ul style="list-style-type: none"> <li>- For participant, if the legalAddress.country is in EEA, valid state identity issuers are <b>eiDAS</b> ones.</li> <li>- <b>Gaia-X</b> Association may also be a valid TSP for Gaia-X Association members.</li> </ul>
eiDAS	Issuers of Qualified Certificate for Electronic Signature as defined in eIDAS <a href="#">Regulation (EU) No 910/2014</a> (homepage: <a href="https://esignature.ec.europa.eu/efda/tl-browser/#/screen/home">https://esignature.ec.europa.eu/efda/tl-browser/#/screen/home</a> ) (machine: <a href="https://ec.europa.eu/tools/lotl/eu-lotl.xml">https://ec.europa.eu/tools/lotl/eu-lotl.xml</a> )
EV SSL	Extended Validation (EV) Secure Sockets Layer (SSL) certificate issuers are considered to be temporarily valid Trust Service Providers. (homepage: <a href="https://wiki.mozilla.org/CA/Included_Certificates">https://wiki.mozilla.org/CA/Included_Certificates</a> ) (machine: <a href="https://ccadb-public.secure.force.com/mozilla/IncludedCACertificateReportPEMCSV">https://ccadb-public.secure.force.com/mozilla/IncludedCACertificateReportPEMCSV</a> )
registration NumberIssuer	During the pilot phase, the Gaia-X Association nominated itself as a valid Trust Anchor under <a href="https://notary.gaia-x.eu">https://notary.gaia-x.eu</a>



# Sessions of the day

- Mr. Olivier Delos (S)
  - Expert & Consultant for Trust services, Mutual recognition
  - Legal aspect
- Mr. Nick Pope
  - Vice chair of ETSI ESI
  - Standardization
- Mr. Joerg Lenz
  - Head of Marketing of Namirial (QTSP)
  - Market view as QTSP
- Mr. Boris Goranov
  - CEO of Ubiqu (Solution provider of DIW and QSCD)
  - Secure implementation of DIW

