

Advancing trust services: Exploring the opportunities of the eIDAS Regulation

Olivier Delos



eIDAS Regulation

- eID & Trust services as a common foundation for secure electronic society/economy
- Removing legal barriers to go digital
→ opportunities for numerous sectors



An electronic document shall not be denied legal effect and admissibility as evidence in legal proceedings solely on the grounds that it is in electronic form.







→ (strong) authentication mutually recognized across EU



Trust services with non-deniable legal effects & Qualified with legal certainty

Qualified trust services under eIDAS

- 🔒 Provision of QC for eSignatures → QESig ≡ 
- 🔒 Provision of QC for eSeals → QESeal ≡ Data integrity & Proof of data origin



- 🔒 Provision of QC for website auth^o → 
- 🔒 Qualified validation of QESig

🔒 Trustworthy results for validation of QESig/QESeal
- 🔒 Qualified validation of QESeal

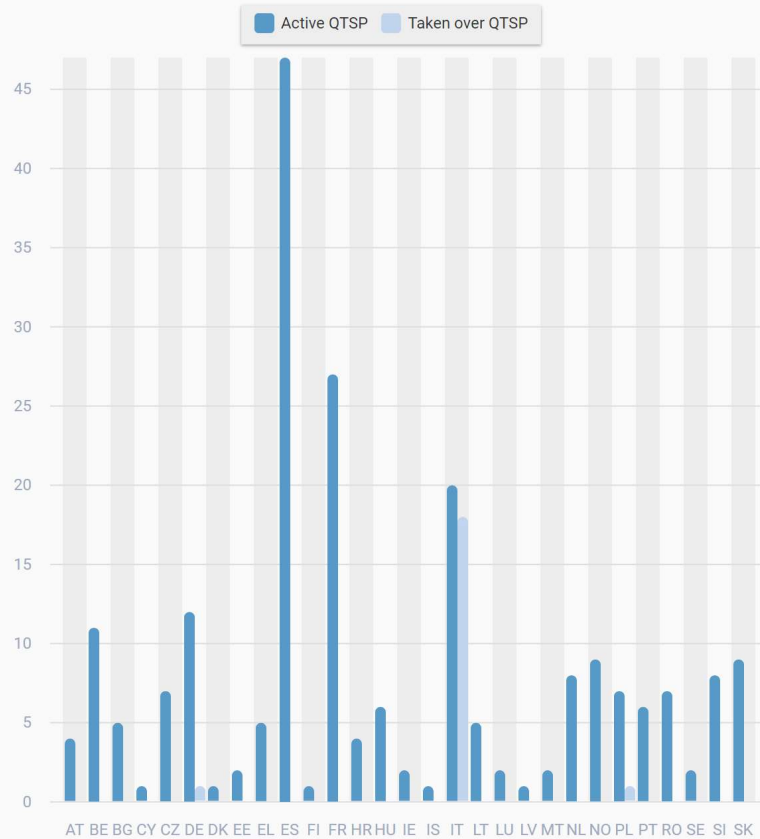
🔒 Trustworthy assurance of long term evidentiary value of QESig/QESeal
- 🔒 Qualified preservation of QESig

🔒 presumption of the accuracy of the date & time and integrity of the time stamped data
- 🔒 Qualified preservation of QESeal

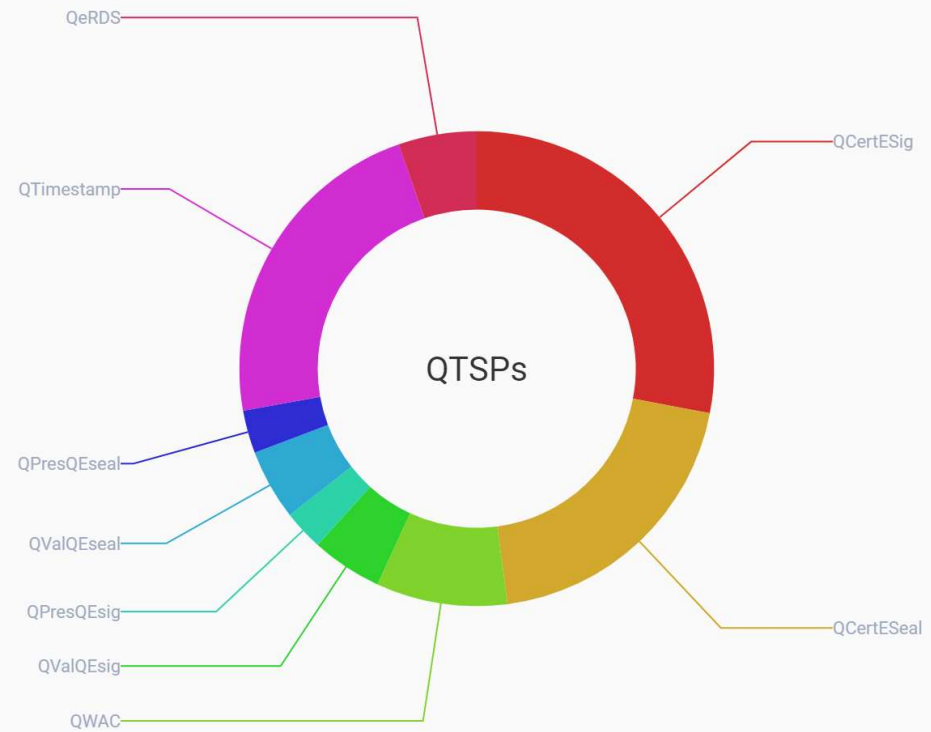
🔒 presumption of integrity of the registered data, the sending of that data by the identified sender, its receipt by the identified addressee and the accuracy of date & time of sending and receipt

eIDAS Regulation

222 Active QTSP (20 Taken over QTSP) in 29 countries



222 active QTSPs in 29 countries



Trusted List Malta

Trust service providers

Currently active trust service providers ▼

eWitness Malta Ltd QPres for QESig QPres for QESeal	Malta Electronic Certification Services Ltd QCert for ESig
---	--

eIDAS Regulation revision - why

- Lack of uptake / adoption of eID means & trust services
- More harmonisation
 - From heterogeneous & non-interoperable eID means towards common standards based EU Digital Identity Wallet
- More technical guidance
 - No (technical) implementing acts for trust services in eIDAS 1.0
 - eIDAS 2.0 shall map technical specifications & reference standards to (qualified) trust services
 - Presumption of compliance or
 - Mandatory (e.g. EAAs, QWACs, identity proofing)
- New (qualified) trust services
 - Electronic attestations of attributes
 - eArchiving
 - eLedgers
 - Remote QSCD management

EU Digital Identity Wallet



EU Digital Identity Wallet

- Issued by Member States, directly or indirectly, always under the responsibility of Member States
- Combined tool, based on common standards:
 - eID means of LoA High → strong authentication across the EU
 - Allows user to collect, store, combine and present (Q)EAAs
 - Allows user to create qualified electronic signatures/seals
- User centric – User in full control of its data
- Fully certified
- Uses cases ... sky is the limit
- Notification regime for relying parties mainly to allow for their authentication to the EUDIW/users

Electronic attestations of attributes

- Definitions
 - *‘electronic attestation of attributes’ means an attestation in electronic form that allows the authentication of attributes;*
 - *‘attribute’ represents the characteristic, quality, right or permission of a natural or legal person or of an object*
- TSP versus QTSP
- QTSP issuing QEAs
 - Obligation of result in the accuracy of the attestation
 - Easy to issue as “simple” QESigned/Sealed statements
 - Common mandatory specifications & standards for QEAs
- Role of Authentic Sources
 - TSP / QTSP
 - Special regime envisaged for issuance of EAs with similar legal effects to QEAs
 - Must allow for verification by QTSPs of the attributes that they manage
- Uses cases ... again sky is the limit

eIDAS 2 Regulation

- eID, EUDIW & Trust services as an improved common foundation for secure electronic society/economy
- Even greater opportunities for even more numerous sectors



An electronic document shall not be denied legal effect and admissibility as evidence in legal proceedings solely on the grounds that it is in electronic form.

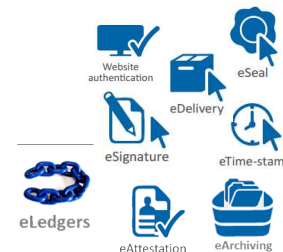


→ (strong) authentication mutually recognized across EU

EUDIW



- (strong) EU wide authentication
- Selective disclosure of EAAs
- Qualified electronic signatures



More trust services with non-deniable legal effects & Qualified with legal certainty

Questions - contact



Olivier DELOS (CISSP, CISA)

Mobile: +32 477 78 79 74

Email: olivier.delos@sealed.be

Web: www.sealed.be