

eSignature standards evolution as supporting the new European legal framework

Challenges, Achievements & Open issues

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Trust Services Provisioning market for interoperable and cross-border use of IAS: challenges

Uses **delegated and implementing acts** as a mechanism to ensure flexibility vis-à-vis technological developments.

Regulation

- Technologically neutral
- **long term** lifecycle (perenity)

NEW:

- Different levels of ES (legal persons)
- Range of ES prod/serv. (mobile signing)
- Different types of TSPs (validation, preservation)
- Trust Framework
 - Supervision of Q-TSP & Trust Status Lists
 - Monitoring / certification/ labelling

Shouldn't be prohibitive (conformity versus constraint and cost) Promotion

Mapping & gap analysis necessary for consistency e.g. vocabulary

Standard

- Technical specifications and policy requirements
- Conformity Assessment Guidance
- **Middle term** lifecycle

A Sound Standardisation Framework

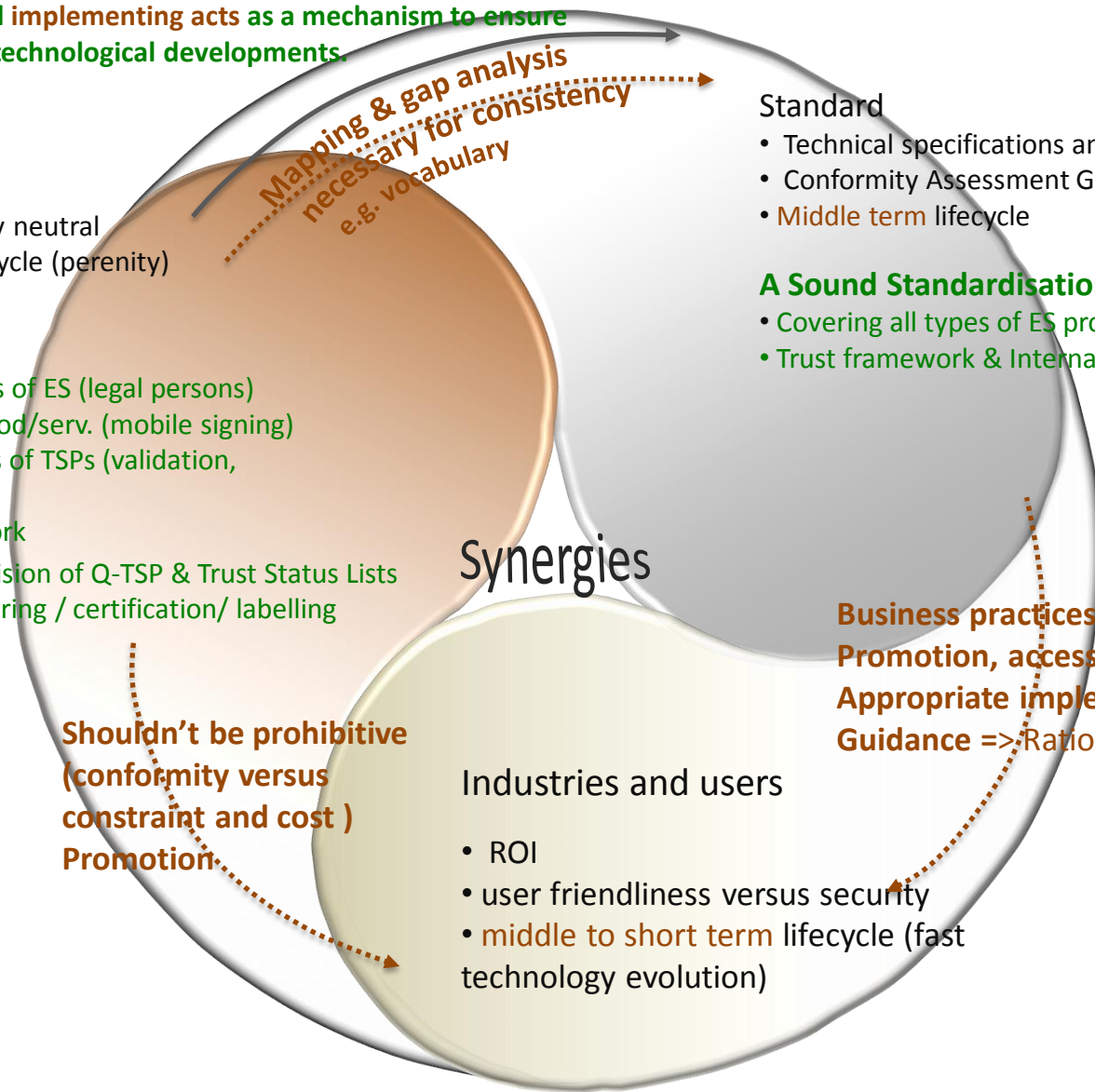
- Covering all types of ES products/services
- Trust framework & International dimension

Business practices driven, Promotion, accessibility, Appropriate implementation Guidance => Rationalised FW

Synergies

Industries and users

- ROI
- user friendliness versus security
- **middle to short term** lifecycle (fast technology evolution)



Main impacts of the regulation on standards: Open topics

Area 1 : SUPERVISION

Supervision of QTS(P)s and Trusted Lists is essential building blocks for trust building (claim vs confirmation)

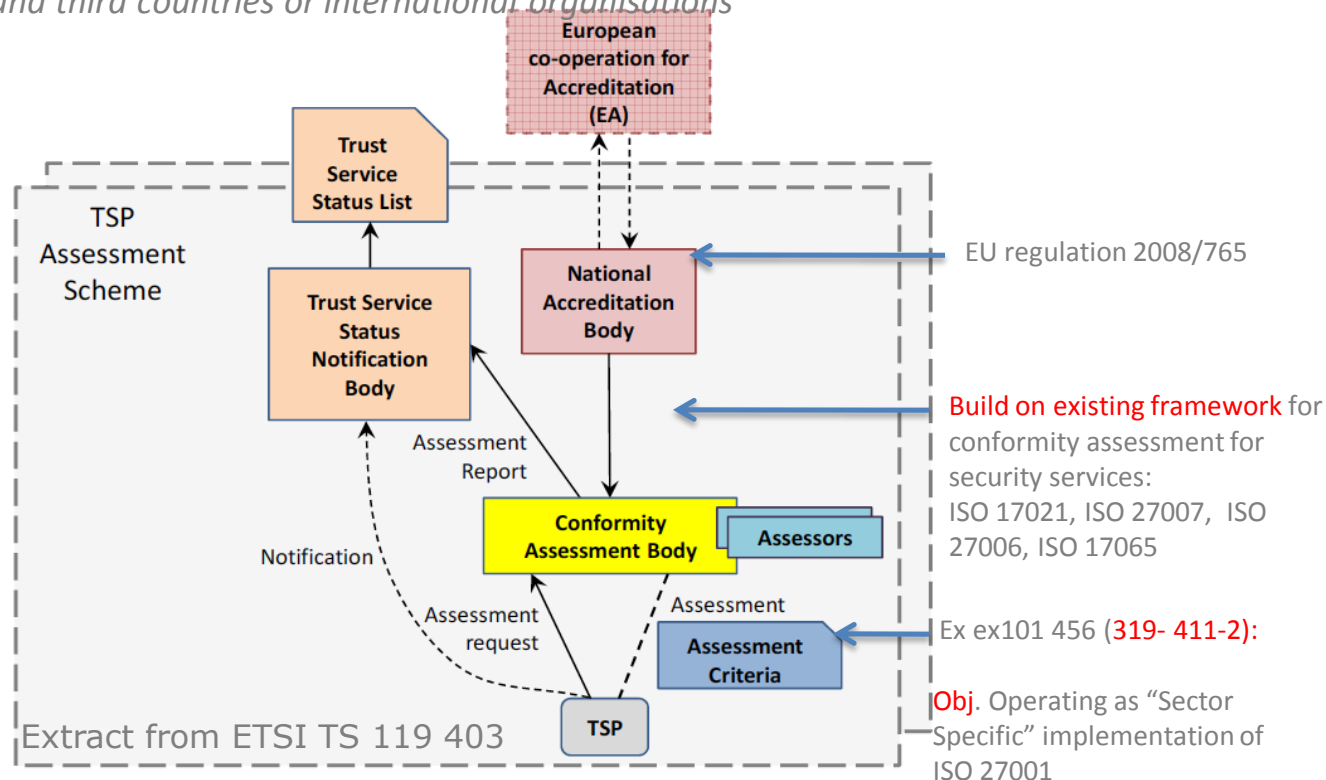
- Although impact on the standards is not major, **impact on national supervision schemes** is major, because the supervision is run in very different ways in the EU Member states
- **Impact on services providers** is directly mapped to impact on supervisions schemes, but difficult to assess the magnitude ...
- Standardised supervision schemes may be the milestone for **international recognition** as some tools from 1999 Dir are not considered in the Regulation draft (Art 10 Regu. vs Art 7 Dir) *In Reg.: Article 10 builds on Article 7 1999/93/EC but retains only recognition under an international agreement between the European Union and third countries or international organisations*

ETSI proposition:

New TS on Conformity Assessment of Trust Service Providers (TS 119 403)

- Requirement for Accreditation
- Recommended Target for Supervision

(nice to be able to present equivalent certificate to different instances)



Main impacts of the regulation on standards: Open topics

Area 2: eSignature & eSEALS

Need for Qualified Electronic Signature Creation Device Protection profiles

- moving from SSCDs to QESCD: opens the door to non smart-cards devices (mobile phones, signing servers, ...)
 - Q_signing in the cloud (mobile phones, signing servers, ...): possible?
 - **qualified or labelled** solutions (solution vs device: borders? / WYSIWYS?)
 - AdES with(out) QESCD?
 - link with new regulation: **sole control by PP combination** => implementing acts

Other than natural persons (Q)certs Web Sites authentication - eSeal, ...

- link CAB forum EV – Baselines CPs and Web Sites authentication concept in new regulation? ***Avoid 2 certifications for CSPs!***
- quid for TSP issuing eSeal, ...

Need for various concepts' clarification

- Validation (validation, verification, signature policy, qualified validation or validation of QES, legal value of ES whose CSP is in status “notification has been submitted (art 17) », ...)
- Revocation information (art. 19.4) from **CSP versus resp. of relying party** : what impact on CSPs?
- Preservation: (Q)eSignature preservation (Q)service, only, and/or eSignature AND document (then this goes beyond current scope)

Areas 3 & 4: Other TSP - eID (authentication)

From ES to ES & ancillary services ... to Identity and Authentication (and links (legal – technical) btw ES and Authentication)

Questions ? - Contact information

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For updates on e-Signature Standardisation

- Subscribe to e-Signature news mailing list: http://list.etsi.org/scripts/wa.exe?SUBED1=e-signatures_news&A=1

- Go online to e-Signature web site: <http://www.e-signatures-standards.eu/>

ETSI Download : <http://pda.etsi.org/pda/queryform.asp>