

ENISA WORKSHOP ON SECURITY ASPECTS OF TRUST SERVICE PROVIDERS

ETSI STANDARDISATION ON TRUST SERVICE PROVIDERS (TSP)

Nick Pope Lead STF 458 (TSP and e-Signature standards)

eSignature Standards Framework



Trusted Lists Providers

 List of TSP services approved (supervised) by National Bodies (e.g. Trusted Lists)

- Certificate Authority
- Time-stamping
- Signing Servers
- Validation Services
- Rules & procedures
- Formats
- Signature Creation
 / Validation
 Protection Profiles

TSPs supporting eSignature 4

Trust Application
Service Providers

- Registered eMail
- Long term preservation

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Signature Creation & Validation

- XAdES (XML) (ISO 14533-1)
- CAdES (CMS) (ISO 14533-2)
- PAdES (PDF) (ISO 32000-2)
- AdES in Mobile envmts
- ASiC (containers)

(CEN)

Common Criteria
Protection profiles

- Smart Cards
- HSMs
- Signing services

Signature 2
Creation Devices

3 Cryptographic Suites

- Key generation
- Hash functions
- Signature algorithms
- Key lengths
- · ...

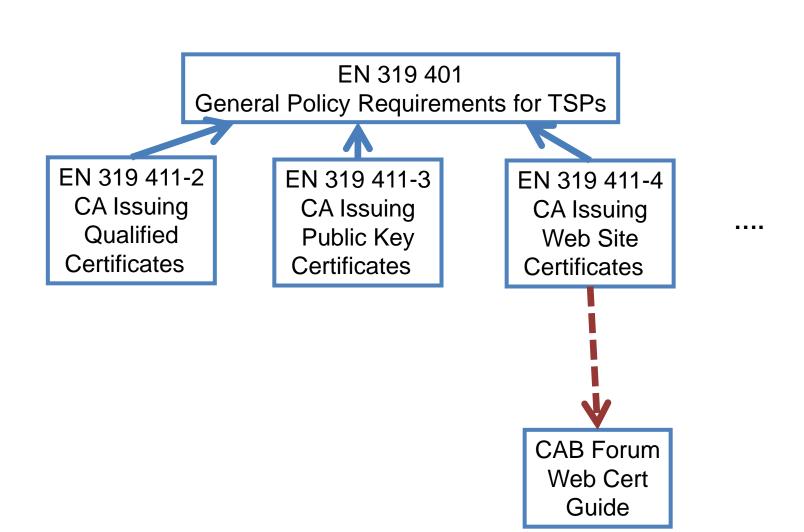
TSP Security Related Activities



- 1999 EU Directive Published Directive 1999/93 on Electronic Signatures
- 2000-2010 CEN & ETSI published "Technical Specifications" in support of Directive including:
 - ETSI TS 101 456: Policy requirements for certification authorities issuing qualified certificates
 - ETSI TS 102 042: Policy requirements for certification authorities issuing public key certificates (non qualified)
- Many (but not all) adopted the ETSI Policy requirements document within varying national "supervisory" schemes
- 2007-2012 ETSI applied TS 102 042 to CAB Forum Enhanced & Baseline Requirements for Web Certificate
- 2012-2015 Becoming "European Norms" aiming at proposed regulatory framework for "Trust Service Providers"

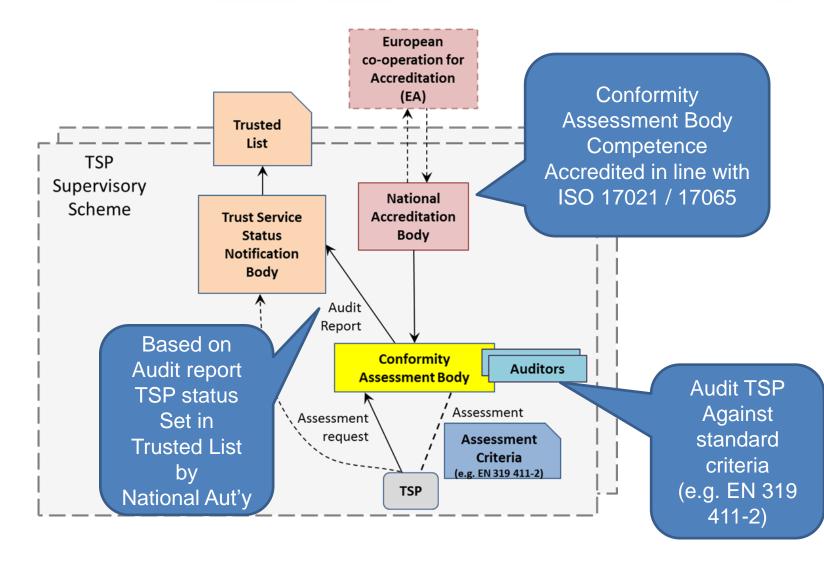
Policy Requirements Document Structure





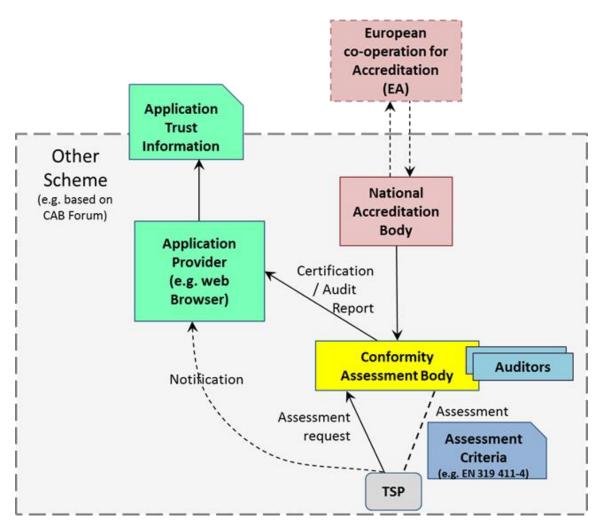
TSP Conformity Assessment Model: Regulatory Adoption





TSP Conformity Assessment : Non-Regulatory Adoption





Key Points



- Global concern: ETSI TSP Security Standards adopted in EU, as well as North Africa, Japan, CAB Forum
- TSP Security requirements likely to need regular updates
- draft EN 319 403 on TSP Conformity Assessment (Audit)
 - Public review due end September
 - Comments most welcome

Further Information:

http://portal.etsi.org/esi/esi activities.asp

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