Welcome to the World of Standards



World Class Standards

NIST-Workshop 10 & 11 April 2013

EUROPEAN APPROACH TO OVERSIGHT OF "TRUST SERVICE PROVIDERS"

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Topics



I. ETSI at a glance

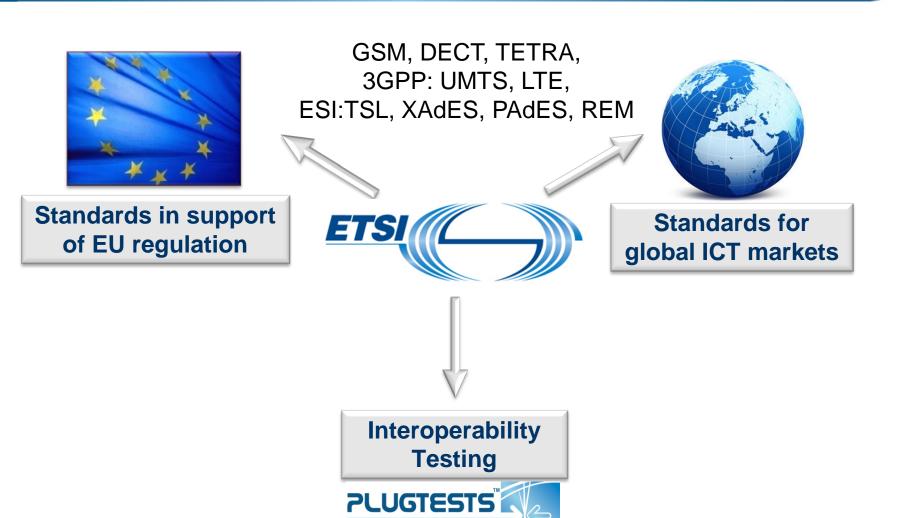
- 2. Current voluntary Audit Scheme for TSP issuing SSL-Certificates based on ETSI Standards and Specs
- ③ 3.1. Legal Framework: EU Draft regulation on EIDAS
- 3.2. Shaped Standards Framework: EU Mandate 460
- 3.3. Proactive Trust Framework
- 4. Next Steps
- 5. Summary



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1. Membership

and ambitions

Over **700 companies**, big and small, from 62 countries on 5 continents

Manufacturers, network operators, service and content providers, national administrations, ministries, universities, research bodies, consultancies, user organizations

> A powerful and dynamic mix of skills, resources





- ETSI
- Year 2008 ETSI Published TS 102 042 "Policy Requirements for Certification Authorities issuing Public Key Certificates" that Generalizes requirements specified in TS 101 456 for Qualified Certificates.
- Year 2010 Versions TS 102 042 references CAB guidelines for specific requirements for Extended Validation Web Certificates
- Year 2012 CAB Forum "Baseline" guidelines to be adopted by all Certification Authorities issuing web certificates - Only compliant CAs to be included in browsers
- End of Year 2012: ETSI issued actual policy and audit guides for Baseline and Extended Validation.

2. Assessment & Certification – Actual (Best) Practise for SSL

8: Recognition by Applications (OS + Browser + TSL)

7: International Assessment / Audit Scheme

6: National Supervision and/or Accreditation Scheme operator

5: Independent Auditing / Assessment Body

4: TSP Conformity Framework and Audit Requirements

3: Standard for Certification Policy

2: Published Certification Practice Statement

1: TSP systems and procedures



2. Assessment & Certification – actual TSP Perspective (german example)

8: Recognition by Applications	(e. g. Mozilla, Opera, MS, Google, Adobe Rootstore)
7: International Scheme	(e.g. EA: European Cooperation for Accreditation or IAF: International Accreditation Forum)
6: National Scheme	(e.g. DAkkS: Deutsche Akkreditierungsstelle)
5: Independent Auditing / Assessm	nent Body (e.g. TÜVIT)
4: TSP Conformity Framework	(ISO 17065+ ETSI TR 102 123 + CA/B-Forum)
3: Standard CP	(ETSI TS 102 042 + CA/B-Forum Req)
2: Published CPS	(e.g. D-TRUST CPS and Conformance Claim)
1: TSP systems and procedures	(CEN14167 or/and Common Criteria or/and FIPS 140-2)



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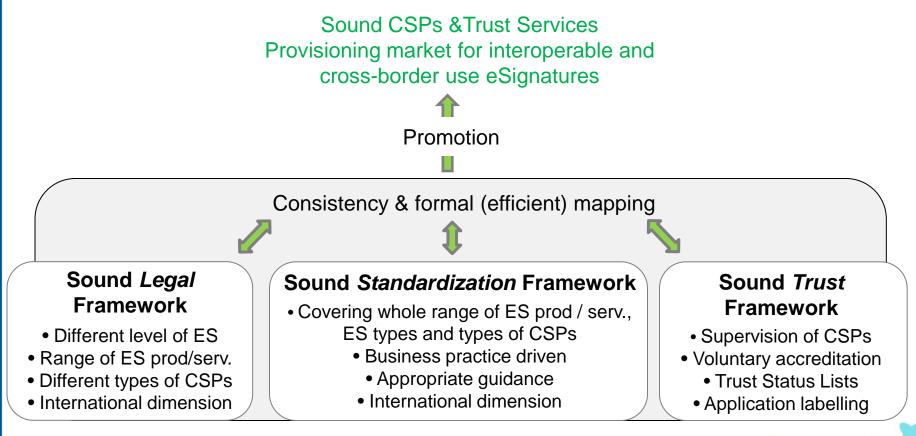
New approach to I-A-S in Europe



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3. Crobies Study in 2010: Key success factors for eSignatures

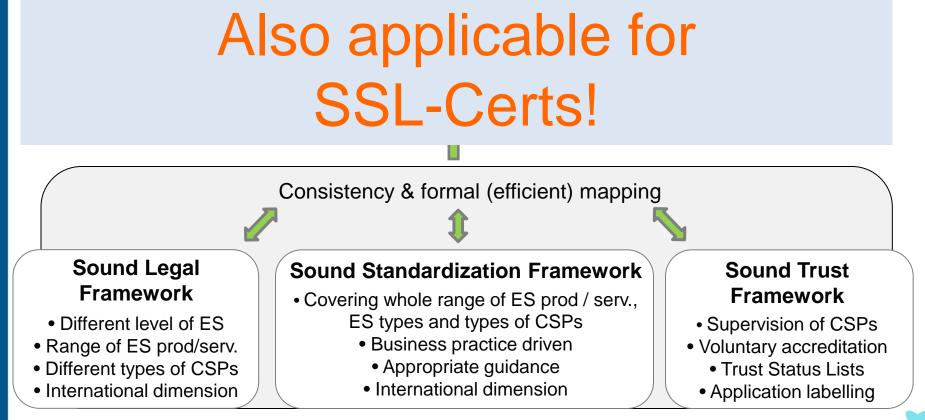
Realizations, consistency and mapping of efficient Legal, Technical, Trust and Promotional frameworks are key success factors to convince market & business stakeholders of the possible ROI of eSignatures securing their eProcesses.



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3. Crobies Study in 2010: Key success factors for eSignatures

Realizations, consistency and mapping of efficient Legal, Technical, Trust and Promotional frameworks are key success factors to convince market & business stakeholders of the possible ROI of eSignatures securing their eProcesses.





3.1 New approach for legal framework: Draft EU EIDAS- Regulation



June 2012 – EU Commission publish <u>first draft</u> regulation **"on electronic identification and trust services for electronic transactions in the internal market".**

Added Mutual recognition of electronic identification [E-ID]

Extended Supervision of "Certification Service Providers"
to "Trust Service Providers", includes "proactive supervision"
Qualified Electronic trust services:

- Electronic signatures interoperability and usability,
- Electronic seals interoperability and usability,
- Time stamping,
- Electronic delivery service,
- Electronic documents admissibility,
- Website authentication.



Structure

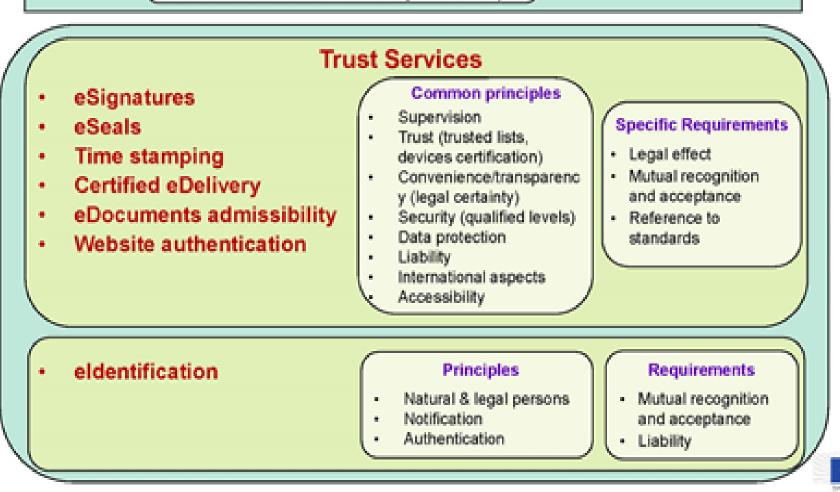
Building of Trust

e-identification, authentication, signatures & related trust services

Underlying principles: Internal market

Subsidiarity

Technological neutrality

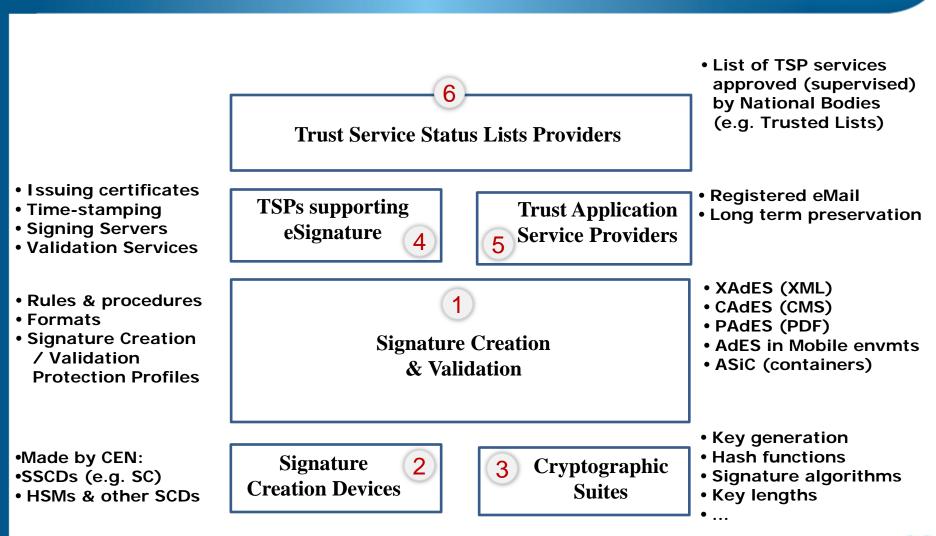


3.2 Standards Framework I: M460 European Commission mandate

- EC founded eSignatures standardization activities
- > 4 years: 2011-2015
- Ist phase (executed)
 - definition of a rationalized standardization framework, in collaboration with CEN
 - several specifications upgrades primarily aimed at providing quick technical fixes to existing electronic signatures standards, and definition of test specifications
- > 2nd phase (starting now)
 - implement the rationalized standardization framework
 - support the new EU Regulation on electronic identification and trust services for electronic transactions in the internal market (exp. approval in 2014)



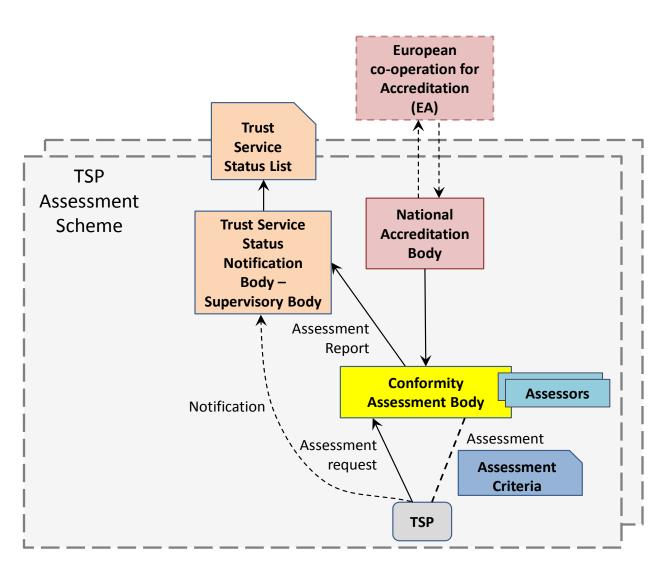
3.2 Standards Framework II Mandate/460





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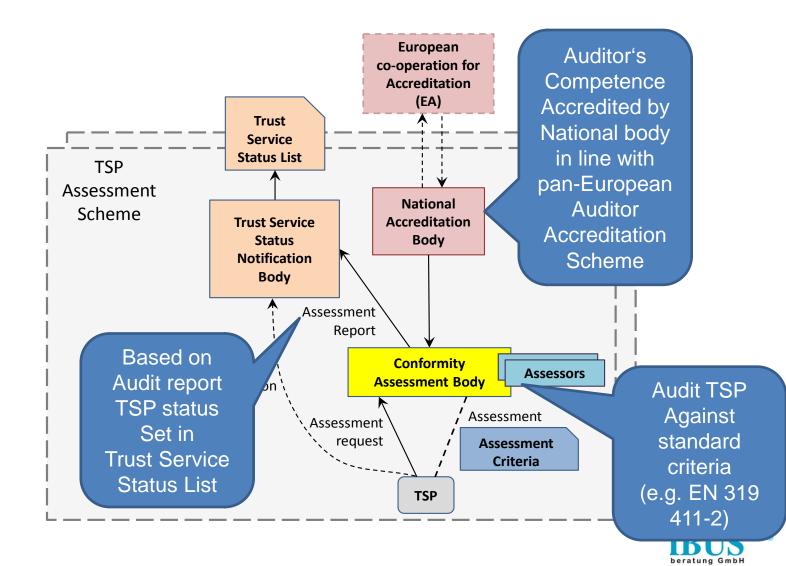
3.3 Trust Framework: Model for TSP Conformity Assessment





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3.3 Trust Framework: TSP Conformity Assessment Model



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- In Spring 2013 EU Commission publish new 2nd draft regulation "on electronic identification and trust services for electronic transactions in the internal market".
- Output State St
 - European Norm for TSP Conformity Assessment
 - European Norms for Best Practices (Policy Requirements)
 - Qualified Certificates for Personal Signing
 - Qualified Certificates for organisational "seals"
 - Qualified Time-stamping Services
 - Qualified Website Certificates (should be EN 319 411-4)
 -
 - Option to operate as "Sector Specific" implementation of ISO 27001



5. Summary



- Existing national conformity assessment schemes (ISO/IEC 17021/17065) are a suitable and powerful framework for voluntary security assessments of TSPs (Reactive Supervision)
- ETSI criteria provide CP's and valuable requirements for the different types of conformity assessment activities
- Additional mandatory network security requirements and certified products will enhance the overall security level of TSPs significantly
- The new draft EU-Regulation will deliver a complete legal and trust framework for **Proactive Supervision** on "qualified level"
- ETSI standards will be a fundamental part in future EU legislation (delegating acts).
- but: "relying parties have to consume Trust"



Thank you !



ETSI Download :

http://pda.etsi.org/pda/queryform.asp

Enter keyword / title / document number

Oraft EU Regulation:

http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=COM:2012:0238:FIN:EN:PDF

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