Welcome to the World of Standards

CAB-FORUM #39 IN REDMOND
Status Update ETSI eSignature Standardization
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-ETSI Slides from Nick Pope-
Topics

- Clarifications
- eIDAS Standards Status
- ETSI Ongoing / Future Activities
ETSI Standards are aimed at the International community and are adopted globally e.g. GSM, DECT, TETRA, smartM2M.....

ETSI standards provide precise audit criteria

- Linked to Specific policy: OV/DV/EV ....
- 395 specific items in audit check list
Audit based on ETSI standard uses existing International framework for Conformity Assessment

- ISO 17065 Conformity assessment — Requirements for bodies certifying products, processes and services
- Accreditation of auditor through national body coordinated through
  - European Cooperation for Accreditation (EA)
  - International Accreditation Forum (IFA)
- It is required that “certification report” identifies the national body accrediting the auditor
- ACAB’C Setting up list of Accredited Conformity Assessment Bodies under ETSI standards
ASSESSMENT RESULTS
VALIDATION

Audit Attestation

- Auditor and Accreditation

ISO/IEC 17065
- ETSI EN 319 401
- ETSI EN 319 411-1
- ETSI EN 310 411-2
Assessments based upon
ETSI EN 319 403
ASSESSMENT RESULTS
VALIDATION

Audit Attestation

- Auditor and Accreditation

http://www.european-accreditation.org/ea-members
ASSESSMENT RESULTS

ETSI Certificate under EA Accreditation
Precise certification reports and supporting documentation

- Basic Requirements of content in ISO 17065 + ETSI EN 319 403
  - Scope including policy (OV/DV/EV)
  - Requirements fulfilled
  - Source of accreditation of auditor
- ACAB’C providing template
AUDIT PROCESS

Document Assessment (Stage 1) → On Site Assessment / Audit (Stage 2) → Certification / CAR / AA

Security Concept, CP, CPS,...

Technical Processes
IT Network
Trustworthy Systems
Organisation & organisational Procedures
Qualified TSP included in Trust Service Status List (TSL)

Third parties:
- Supervisory Body
- Browsers
- ...

CA CAR / AA (+Cert)
eIDAS Standards Framework: Published Standards Mandate/460

Trust services for:
- Issuing certificates
- Time Stamping
- Signature creation services
- Validation services
- Procedures for AdES creation & validation

CC Protection Profiles
- QSCD - Smart Cards
- HSM used as QSCD
- HSM used by TSPs
- Remote QSCD

General Framework

List of approved QTSPs & services supervised by National Bodies

Trust services for:
- Registered eDelivery / eMail
- Long term preservation

Formats:
- XAdES (XML)
- CAdES (CMS)
- PAdES (PDF)
- ASiC (containers)

Signature suites
- Hash
- Asymmetric crypto
- Key generation
- Lifetime
- Standards framework
- Common definitions
- Guides
TSP Standards Overview (ETSI)

Conformity Assessment

- EN 319 403
  TSP Conformity Assessment

Policy

- EN 319 421
  Time-stamping
  Qual / Other

- EN 319 401
  General TSP

- EN 319 411-1
  TSP issuing Certs

- EN 319 411-2
  TSP issuing Qual Certs

Profiles

- EN 319 422
  (RFC 3161)

- EN 319 412
  (X.509)

Replaces

- TS 102 042
- TS 101 456

Based on

- IS 27002

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All latest standards now fully ratified and published

Available for free download from:

http://www.etsi.org/standards-search

EN 319 403: TSP Conformity assessment
EN 319 411: Policy and security requirements for Trust Service Providers issuing certificates

Audits required to start 1st July 2016
New Activities: 319 4xx maintenance

- Updates to 319 411-1, 319 411-2 and 319 411-x
- Ongoing CA Forum alignment
- Options for Representing eID minimum attributes in X.509 Certificate
- Short term certificates (suggest no special provisions needed)
- CRL / OCSP beyond certificate expiry
New activities

- Maintenance of existing 319 4xx standards
- Internationalisation of Scheme in preparation.
- AdES Signature validation services
- [Remote] Signature Creation Services
- Registered E-Delivery Formats and CPs
- Long term (signature) preservation
Model for usage of ETSI TSP Standards

- **Conformity Assessment Body**
  - Certification / Confirmation against eIDAS Qualified TSP requirements (Certification of conformance To EN 319 411—2)

- **eIDAS Supervisory Body**

- **Application Provider**
  - Certification of conformance To EN 319 411-1
  - + certification / confirmation against CA/Browser Baseline / EV requirements

- **TSP**
  - Checklist supporting Claim of conformance To EN 319 411-1 / -2
  - + CAB Browser Forum / eIDAS requirements
Thank you for your attention

ETSI Documents: Free download
http://www.etsi.org/standards-search

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

Further information:
https://portal.etsi.org/TBSiteMap/ESI/TrustServiceProviders.aspx

ACAB-C http://www.acab-c.com/
View on QWACs in Europe
CA/QC for eSignatures (Sept. 16)

- 26 EU Member States
- 713 CAs in total
- Currently concentrated in Germany, Italy, Spain, France (~70%)
Qualified Website Authentication Certificates (Oct 16)

- Currently 0 services offered in all of Europe
- Actually many audits ongoing, a few already successful passed