



Welcome to the World of Standards



UPDATE ON CEN & ETSI STANDARDISATION ON SIGNATURES

Workshop eIDAS Trust Services: 6 months on after the switch-over

19 December 2016

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eIDAS Standards Status

ETSI Ongoing / Future Activities

- TSP Standards Updates
- Signature Validation Service
- eDelivery
- Preservation
- Remote Signature Creation Component Services

CEN Ongoing Activities

- HSM & Time-stamping protection Profiles
- Remote Signing

eIDAS Standards Framework: Published Standards



Trust services for:

- Issuing certificates ✓
- Time Stamping ✓
- Signature creation services
- Validation services

119 6xx

Trust service status lists



List of approved QTSPs & services supervised by National Bodies ✓

x19 4xx

TSPs supporting digital signatures



x19 5xx

Trust application service providers



Trust services for:

- Registered eDelivery / eMail
- Long term preservation

x19 1xx

Signature Creation & Validation



Formats:

- XAdES (XML) ✓
- CAAdES (CMS) ✓
- PAdES (PDF) ✓
- ASiC (containers) ✓

CC Protection Profiles

- QSCD - Smart Cards ✓
- HSM used as QSCD
- HSM used by TSPs
- Remote QSCD

419 2xx

Signing Devices



119 3xx

Cryptographic suites



- Signature suites ✓
 - Hash
 - Asymmetric crypto
 - Key generation
 - Lifetime

119 0xx

General Framework



- Standards framework ✓
- Common definitions ✓
- Guides

- 2 EC Implementing Decisions published on 8 Sept. 2015 mandating support by EU Member States (EUMS) of ESI specifications (baseline CAdES/XAdES/PAdES/ASiC signatures + Trusted Lists)
 - CID (EU) 2015/1505 on Trusted Lists: referring TS 119 612 v2.1.1
 - CID (EU) 2015/1506 on formats of advanced electronic signatures and advanced seals to be recognised by public sector bodies: referring old baseline profiles, waiting for ENs to be published
- 1 EC Implementing Decision published on 25 April 2016 referring to CEN standards
 - CID (EU) 2016/650 for the security assessment of qualified signature and seal creation devices: referring to EN 419211

Testing conformance and interoperability

- ETSI organized 6 Plugtests in the past 2 years
 - Signature validation Plugtests Nov.-Dec. 2014, in coordination with EC
 - PAdES (May 2015) , CAdES (June-July 2015) and XAdES (October 2015) signature formats (testing previous TS and draft ENs)
 - Signature validation Plugtests in February 2016, in coordination with EC
 - ASiC (signature containers) Plugtests (Nov-Dec. 2016)
- Availability of [Signature Conformance checkers](#) for CAdES, XAdES, PAdES and ASiC - freely accessible

- TSP Standards updates to consider feedback received on published documents, revocation status beyond expiry...
- Signature validation service provided by TSP
 - Starting work
 - New standards
 - TS 119 441: TSP Policy requirements
 - TS 119 102-2: Signature Validation Report
 - TS 119 442: Protocols
- Signature Preservation: Scoping study and framework for long term preservation services
 - Aim complete early 2017
 - Preservation of the validity of digital signatures
 - Preservation of the integrity of digital objects using digital signature / time-stamping techniques




Registered eDelivery

- Coherent set of Standards for Electronic Registered Delivery (ERD) and Registered Electronic Mail (REM), which ESI considers a special type of ERD.
- Documents to be produced:
 - EN 319 522 (ERD) & 319 532 (REM) Technical specifications, including: architecture, semantic contents, formats, bindings to transport protocols
 - EN 319 521 & 319 531 Policy and security requirements
 - TS 119 524 & 119 534 Testing interoperability and conformance

Remote Signature Creation Component Services

- Plan Starting early 2017
- New standards
 - TS 119 431-1: Policy requirements for TSP Service Components operating for a TSP operating a remote QSCD
(Building on CEN standards for server signing)
 - TS 119 431-2: Policy requirements for TSP Service Components supporting AdES Signature Creation
 - TS 119 432: Protocols for remote digital signature creation

Preservation

-  EN 419231 Time-stamping Protection Profile
 - Evaluation successfully completed, awaiting certification
 - About to be sent to CEN enquiry
-  EN 419221-5 Protection Profile for TSP cryptographic device
 - evaluation successfully completed, awaiting certification
-  CEN Server signing
 - EN 419 241-1 General System requirements about to be sent to CEN enquiry
 - EN 419 241-2 Protection Profile for QSCD for Server Signing will be sent out to evaluation and CEN enquiry in February 2017

All primary standards are published as ENs

- ETSI: available for free download

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

Overview of ESI standards:

<https://portal.etsi.org/TBSiteMap/ESI/ESIActivities.aspx>

- CEN: available through National Standards Organisations

Ongoing support for eIDAS standards

Any questions