

Update on ETSI ESI standardisation related to Publicly Trusted Certificates

CA/B-Forum May 2024 Meeting

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ETSI & CEN Standards supporting eIDAS – the overall picture



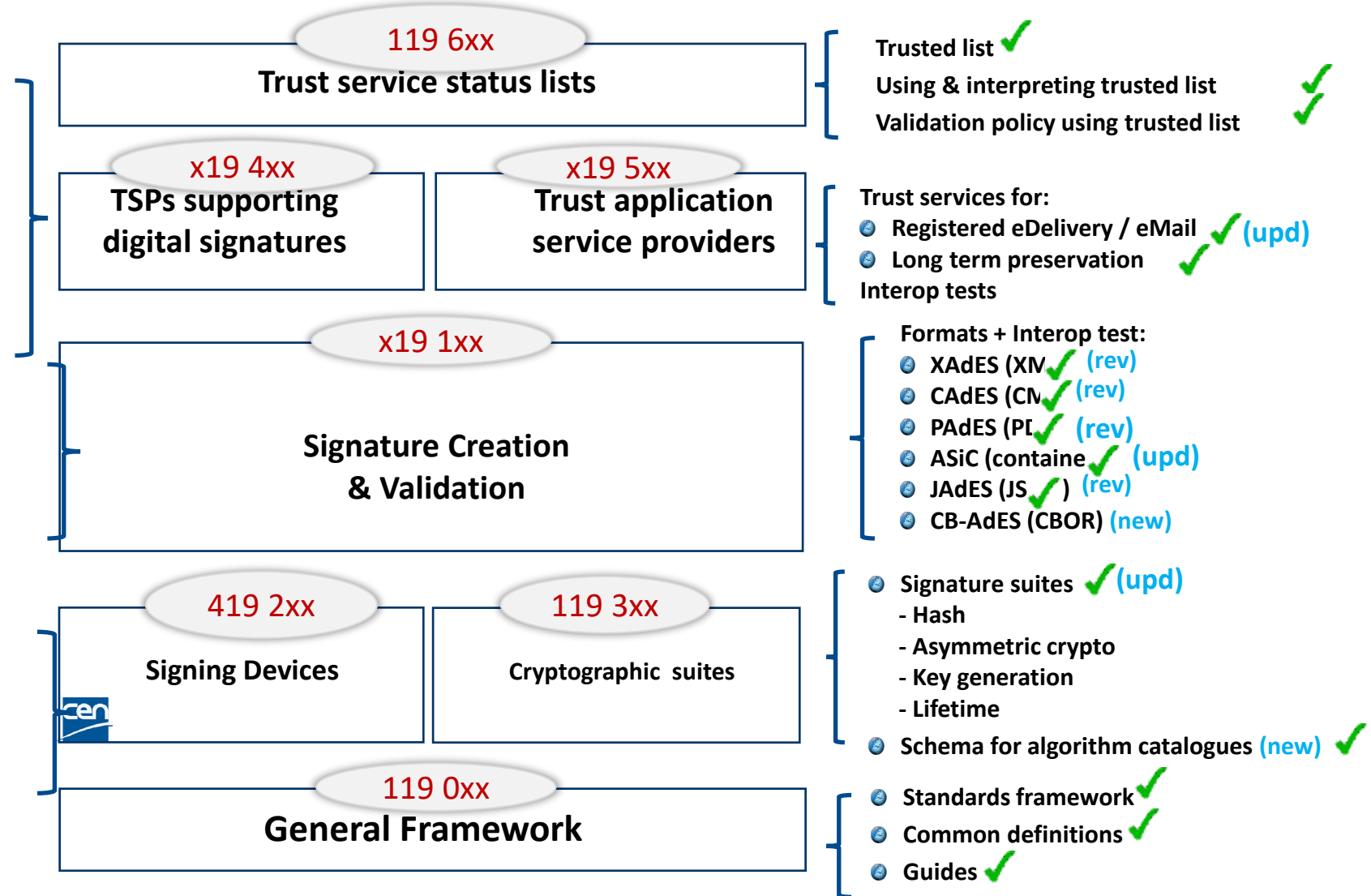
Trust services:

- TSP Audit ✓
- Issuing certificates ✓ (Upd)
- Time Stamping ✓
- Signature creation services ✓
- Signature validation services ✓
- Identity proofing ✓ (Upd)
- Open Banking ✓ (Upd)
- Support for NIS 2 (new)
- S/MIME ✓
- Attribute Attestations (new)

- AdES creation & validation
 - Part 1: procedure ✓ (rev)
 - Part 2: signature validation repo ✓

CC Protection Profiles ✓

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



| | |
|-------|--------------------|
| ✓ | Published |
| (Rev) | Recently revised |
| (Upd) | Update in progress |
| (New) | New |

- Alignment of all trust services with NIS2 Directive
- Identity proofing under eIDAS 2
- Changes requested to EN 319 411-x & EN 319 412-x

Directive (EU) 2022/2555 – “NIS 2” Measures for a high common level of cybersecurity across the EU



Applies to all EU based trust services

Enforced from October 2024

EN 319 401 v3.1.0 “General Policy Requirements for Trust Service Providers”

- Major revision for NIS2 including new requirements for supply chain security
- Aim to be recognised as sector specific application of NIS 2 for trust services
- Under approval ballot until 31st May
- <https://www.etsi.org/standards-search#search=EN319401>

Identity Proofing

eIDAS 2 - Regulation (EU) 2024/1183 Alignment



TS 119 461: Policy and security requirements for trust service components providing identity proofing of trust service subjects

Published : July 2021: <https://www.etsi.org/standards-search#search=TS119461>

Update to meet new eIDAS 2 requirements

- High level of assurance
- Support for upgrading existing baseline checks to “Extended” level
- Reference CEN standard on biometric injection attack detection for remote registration

Changes requested to EN 319 411-1

General requirement TSPs issuing certificates



CR1: Update for Report of Key Ceremonies including pre-generated keys

CR2: Referencing external documentation that are subject to change

CR3: Editorial on requirement numbering

Ongoing discussion

✓ “Validity assured certificates” and revocation

✓ Alignment with CA/B forum EV re-structure

Changes requested to EN 319 412-1

Certificate Profiles – common data structures



CR#1 – Editorial update to ASN.1 module definition

CR#2 – Identifier based on Digital ID (equivalent to ID Card)

CR#3 – Allow for regional identifier with National Trade Register (aligned with CA/B EV)

CR#4 – Record in certificate means of ID Proofing to avoid depending on chain of previously issued certificate

eIDAS 2

- Architectural Reference Framework v1.4.0 available
- Project let to produce open source implementation of Wallet
- 4 * Pilot projects implementing wallets
- ETSI Leading standardisation of TSP related aspects:
 - Attribute attestation formats,
 - Attribute attestation policies,
 - Wallet to TSP interface
 - Use of remote signing services

ETSI / CEN Workshop on EU Digital Identity Framework Standards

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Regulation (EU) 2024/1183 amending Regulation (EU) 910/2014 on electronic identities, authentication and signatures (eIDAS 2) was published in the Official Journal of the European Union this spring 2024. This amendment establishes an ambitious European Digital Identity Framework with digital identity wallets and a number of new trust services. This will bring about a major transformation of security of the European digital infrastructure facilitating cross border transactions, supporting seamless access to financial, governmental and commercial services across Europe with a high level of accountability.

ETSI and CEN are working together to develop a number of standards to support this new regulatory framework building on the latest globally recognised standards for website authentication, open identities and mobile based wallets. The workshop will present the latest status of these standards and is aimed to include demonstrations from large scale pilots applying the EU Digital Identity Wallet.

The Workshop is conducted by ETSI ESI Technical Committee and CEN/TC 224.

Who should join?

The workshop will be of direct interest to all those concerned with ensuring a secure digital infrastructure across Europe including regulators, providers of mobile identity solutions, manufacturers of secure elements / smart devices, trust service providers, application and secure solution providers.

Why attending?

The standards CEN and ETSI underpinning this new European Digital Identity Framework will have a major impact on the European market which solution providers need to be aware of to keep up with changing environment. Also, the workshop, and the following open consultation on draft standards, provides the opportunity to influence the direction taken in CEN and ETSI standards supporting the European Digital Identity Framework.

<https://www.etsi.org/events/2353-cen-etsi-workshop>

Further information

Information on available standards and current activities:

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

ETSI standards: available for free download

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

CEN standards: available through National Standards Organisations

Updates on standardisation:

https://list.etsi.org/scripts/wa.exe?SUBED1=e-signatures_news&A=1



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