



# Welcome to the World of Standards

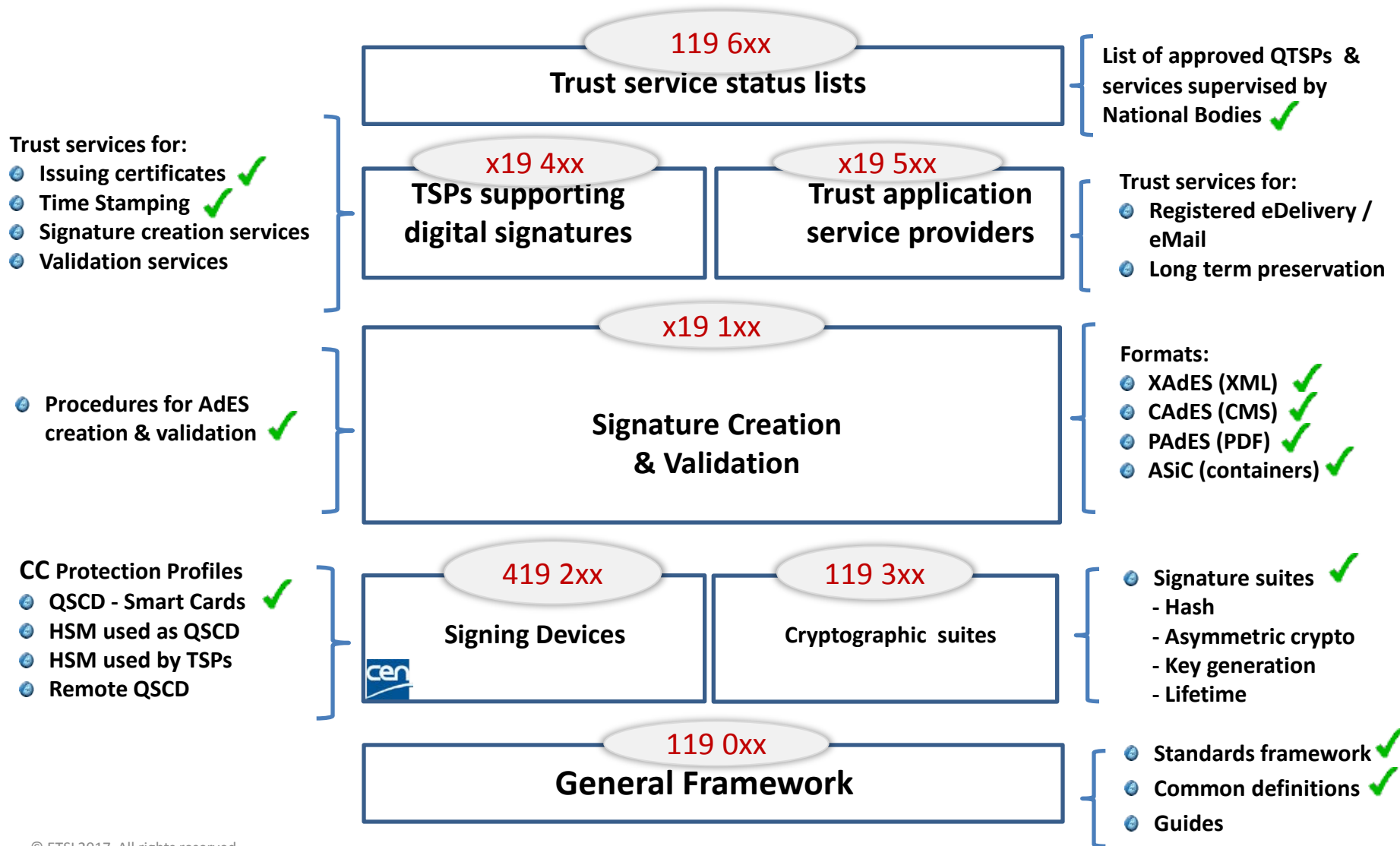



## UPDATE ON STANDARDISATION UNDER eIDAS

**CA Day 28 Nov 2017**

Nick Pope – Vice Chair ETSI Electronic Signatures and Infrastructures

# eIDAS Standards Framework: Published Standards



- Updates to TSP Policy Requirements: EN 319 411-1/2
- Support for PSD2 use of Qualified certificates
- Signature Validation
- Remote signing
  - CEN Standards 
  - ETSI Standards
- Electronic Registered Delivery  
and Registered Electronic Mail Services
- Long term (signature) preservation
- Using Trusted Lists
- Internationalisation
- Need for Clarifying Audit Requirements

# Updates to TSP Policy Requirements: EN 319 411-1/2



- Each individual requirement clearly identified
- Alignment with CA Browser Forum (EVCG V.1.6.1 for ECVP and BRG v1.4.2)
- Several detailed clarifications
- OCSP & CRL: OCSP recommended (not mandated), support for long term validation, details on OCSP requirements
- Clearly identify requirement relating to a specific component

Under EN approval: Ballot closed – Detailed issues to be addressed

Documents (with revisions marked):

[https://docbox.etsi.org/esi/Open/Compared\\_deliverables](https://docbox.etsi.org/esi/Open/Compared_deliverables)

## Background

- Directive 2015/2366/EU aimed at regulating “payment services”
  
- Draft Regulatory Technical Standards:
  - High level technical requirements for:
    - strong customer authentication
    - common and secure open standards of communication
  - Final publication by commission due November 2017
  - Requires use of qualified Certificates for secure communications & transactions between payment service providers:
    - Web site authentication certificates
    - e-Seal certificates
  - Requires PSD2 Specific certificate attributes
    - Identifies member state competent authority
    - Payment services authorised

ETSI working with ECB ERPB PIS WG to define:

### Qualified Certificate profiles

- PSD2 Qualified Website Authentication Certificates
- PSD2 Qualified Seal Certificates

### TSP Policy Requirements for PSD2 Qualified Certificate

- Requirements for validation of PSD2 specific attributes
- Revocation of PSD2 certificate due to change in PSD2 attribute status

Involves interaction with National (Financial) Competent Authority

## Standards being developed:

- TS 119 102-2: Validation Report
- TS 119 441: Policy requirements for TSPs providing Signature validation services
- TS 119 442: Protocol for signature validation services

## Protocol features:

- Supports both XML and JSON exchanges
- Aligned with OASIS DSS

## Timescale

- Stable draft for review: Dec 2017
- Publication: Sept 2018

## Open Workshop

- 10<sup>th</sup> January 2018: <http://www.etsi.org/news-events/events/1222-2018-01-esignature-and-eseal-validation-workshop>

# Remote Signing

## CEN Standards for Trustworthy Systems



- Draft CEN Standards:
  - prEN 419 241-1: General System requirements
  - prEN 419 241-2: Protection Profile for QSCD for Server Signing
  - prEN 419 221-5: Cryptographic module
- Authentication can be delegated to an Identity Provider outside QSCD
- Timescale:
  - EN 419 241-1: 1<sup>st</sup> round agreed with minor revisions, final approval by end 2017
  - EN 419 241-2: 1<sup>st</sup> round agreed subject to evaluation under Common criteria, aim final approval Q1 2018
  - EN 419 221-5: Final approval by end 2017



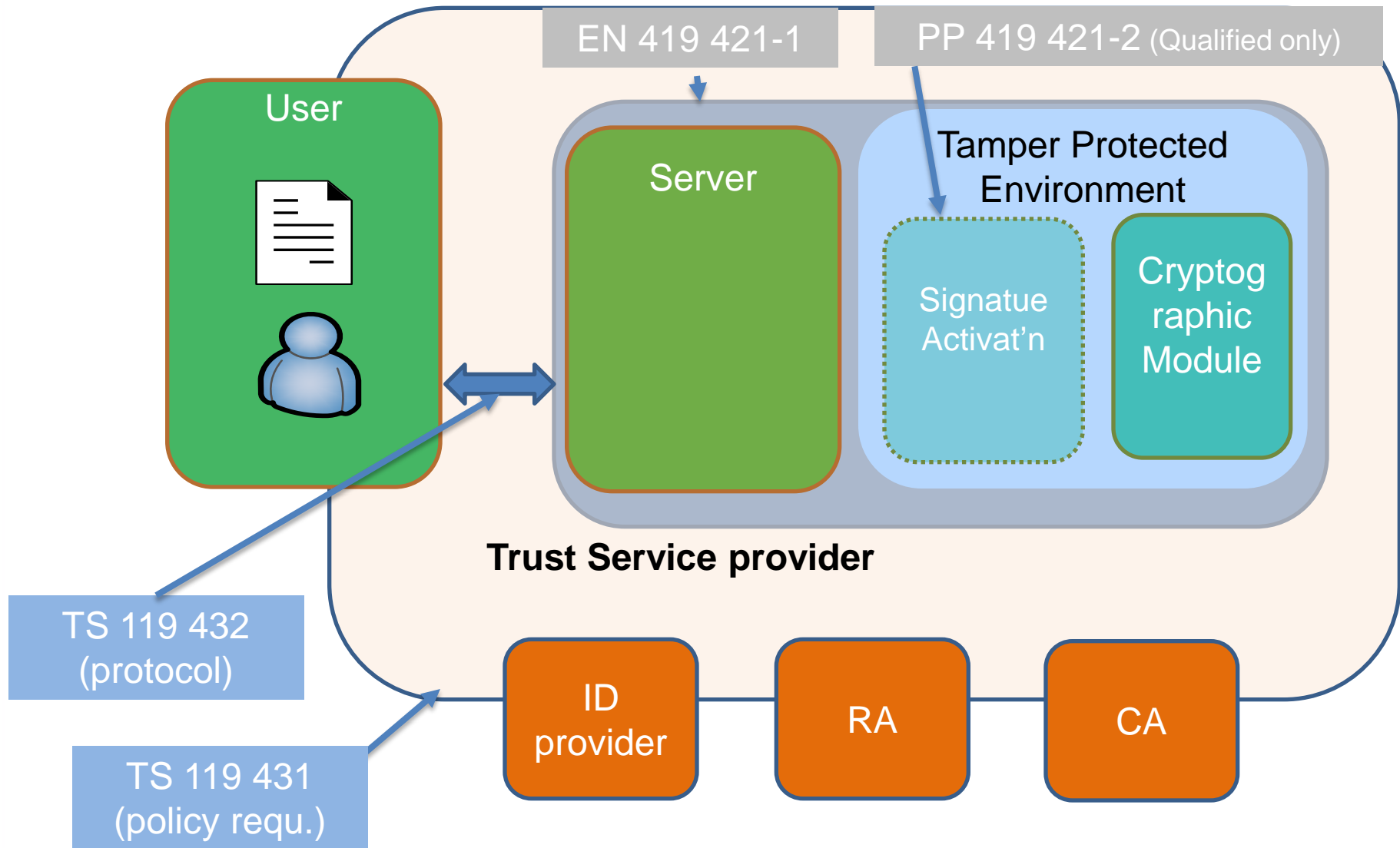
## Standards being developed:

- TS 119 431-1: Policy and security requirements for TSP service components operating a remote QSCD / SCD
- TS 119 431-2: Policy and security requirements for TSP service components supporting AdES digital signature creation
- TS 119 432: Protocols for remote digital signature creation

## Timescale

- Started work on detailing scope
- Funded STF activity started: Oct 2017
- Stable draft for review: June 2018
- Publication: Nov 2018

# Scope of remote signing standards



# Electronic Registered Delivery and Registered Electronic Mail



## Existing standards:

- TS 102 640 (parts 1 to 6) Registered Electronic Mail

## Standards being developed

- EN 319 522: Electronic Registered Delivery Services
- EN 319 532: Registered Electronic Mail (REM) Services
- EN 319 521: Policy and security requirements for Electronic Registered Delivery Service Providers
- EN 319 531: Policy and security requirements for Registered Electronic Mail Service Providers
- TS 119 524: Testing Conformance and Interoperability of Electronic Registered Delivery Services
- TS 119 534: Testing Conformance and Interoperability of Registered Electronic Mail Services

## Timescale

- **Stable draft of ENs for review: End Oct 2017**
- EN approval starts: End April 2018
- ENs published : Feb 2019

# Electronic Registered Delivery and Registered Electronic Mail - Liaison

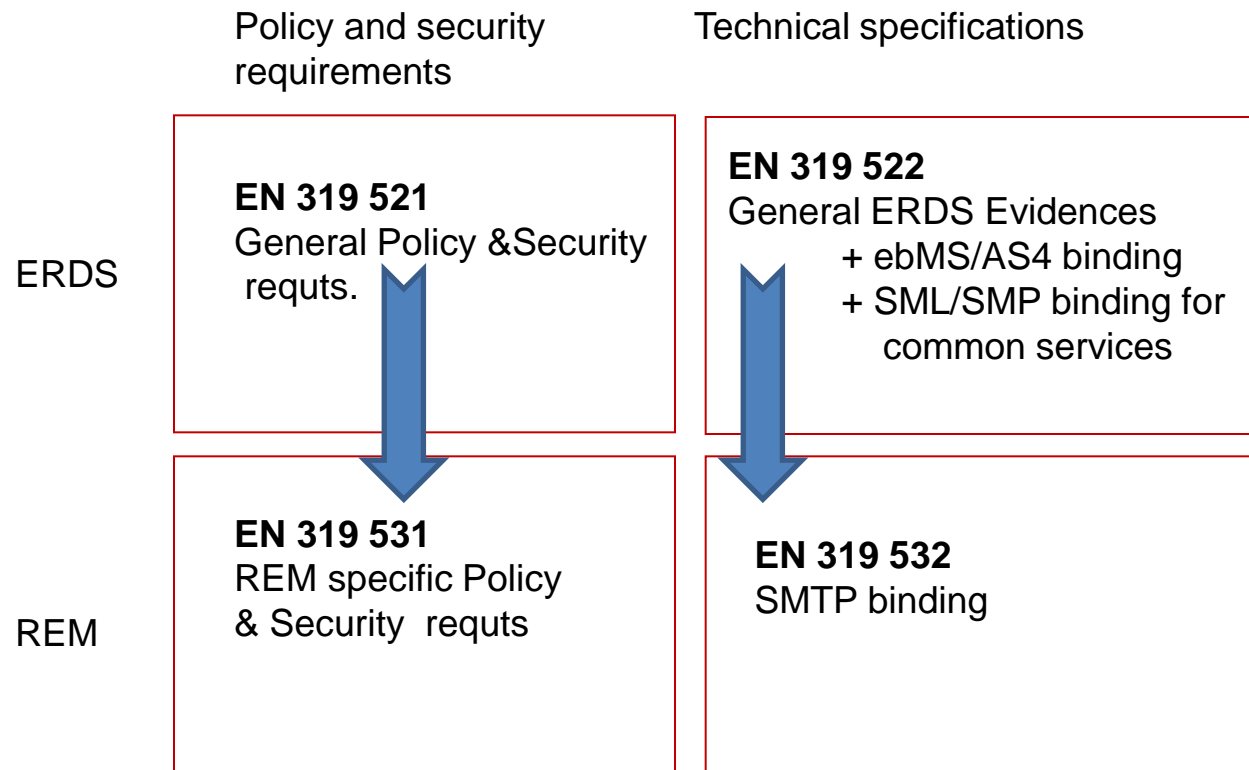


- ESI has liaised with CEN TC 331/WG2 for properly dealing with CEN TS 16326 specifications on Postal Registered Electronic Mail (PrEM).
- ESI will also liaise with UPU, as its S52 specification is the basis for CEN TS 16326, for properly dealing with the three sets of specifications.
- ESI has also conducted meetings with CEF as a major key player in the ERDS arena.

# Electronic Registered Delivery and Registered Electronic Mail: deliverables and their relationships



Denotes a path from general requirements, common to any ERDS, to requirements that are specific ONLY to REM services and REM services providers.



**TS 119 524** Testing Conformance and Interoperability of Electronic Registered Delivery Services

**TS 119 534** Testing Conformance and Interoperability of Registered Electronic Mail Services

**TR 119 500** Business Driven Guidance for Trust Application Service Providers

## Work started:

- TS 119 511 Policy & security requirements for trust service providers providing long-term preservation of digital signatures or unsigned data using signature techniques
- TS 119 512 Protocols for trust service providers providing long-term preservation of digital signatures or unsigned data using signature techniques

## Time scale:

- Stable draft for review April 2018
- Publication: November 2018

- Use of information within a Trusted List by relying parties
  - Covers use not only for e-Signatures / e-Seal validation but other trust services such QWAC and Registered e-Delivery, validation reports
  - Include algorithm which can be used for machine processing for the purpose of validation of TSP issued information
  
- Timescale:
  - Stable draft for public review: March 2018

- ETSI / US Workshop on “International Trust in digital signatures” 8 March 2017
  - Recognised equivalence between ETSI EN 319 411-1 & 2 and US Federal Bridge Policies
  - Equivalence between US Federal Bridge and EU Trust
    - Tool available to map data between different representations
  - Possible basis of cross recognition of signatures would be via trade agreement
  - Further justification needed to get buy in from US Government
  - SAFE Biopharma produced list of signing CAs that are cross certified directly with SafeBipharma + Federal bridge CA in Trust List format



## ETSI / JIPDEC Workshop on “Interoperable Global Trust for Digital Signatures” held 4 July 2017

- ETSI standards for trust services and signatures already widely adopted in Japan
- Looking at comparison of trust infrastructure in Japan and Europe
- JNSA Remote Signature Task Force developed initial architecture
- Considering harmonization with CEN Standards EN 419 241-x
- Interested in ETSI standards for remote signing.

Meeting report & slides available

- Qualified TSP Audit Supervisory Body Concerns
  - Bi-annual audit
  - No Consistency of audit report
  - Clear statement against eIDAS articles
  - Majority ETSI Based, but not exclusively
  
- CA/Browser Audit - Browser Software Supplier Concerns
  - Ongoing annual full audit including checks on past year operation
  - Webtrust or ETSI

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