



The Standards People



## EU standards for Certification Authorities and Cross Recognition

Presented by: **Arno Fiedler - Nimbus**  
Vice Chair ETSI TC on  
Electronic signatures and (Trust)  
Infrastructures (ESI)

For: **International Workshop on Cross Border  
Recognition of Certifying Authorities**

07.09.2022

# Agenda

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- - Introduction to eIDAS and Trust Services in Europe
- - Standards for Trust Service Providers Issuing Certificates
- - Audit and supervision of Trust Services
- - Trusted lists
- - International cross recognition
- - Q&A

# EU Directive on electronic identification and trust services for electronic transactions 910 2014: (eIDAS)



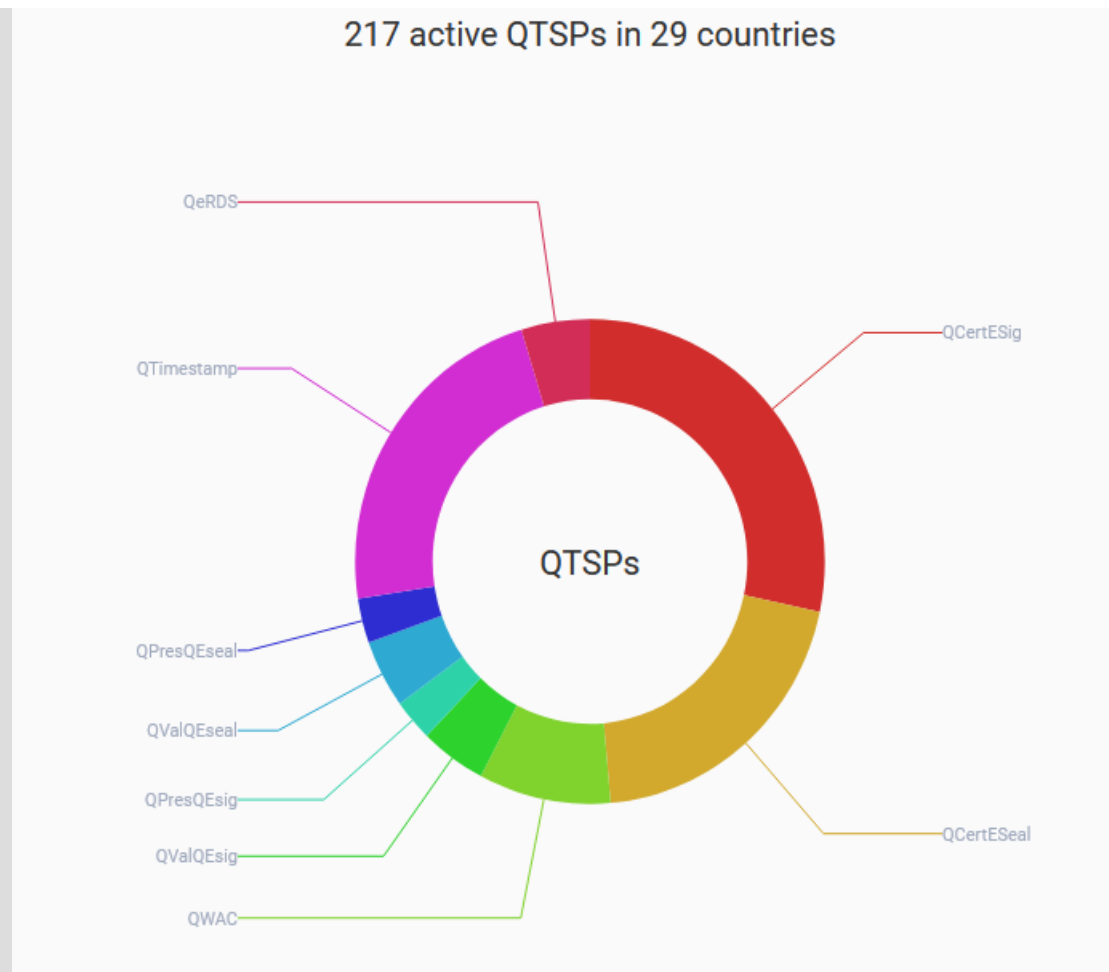
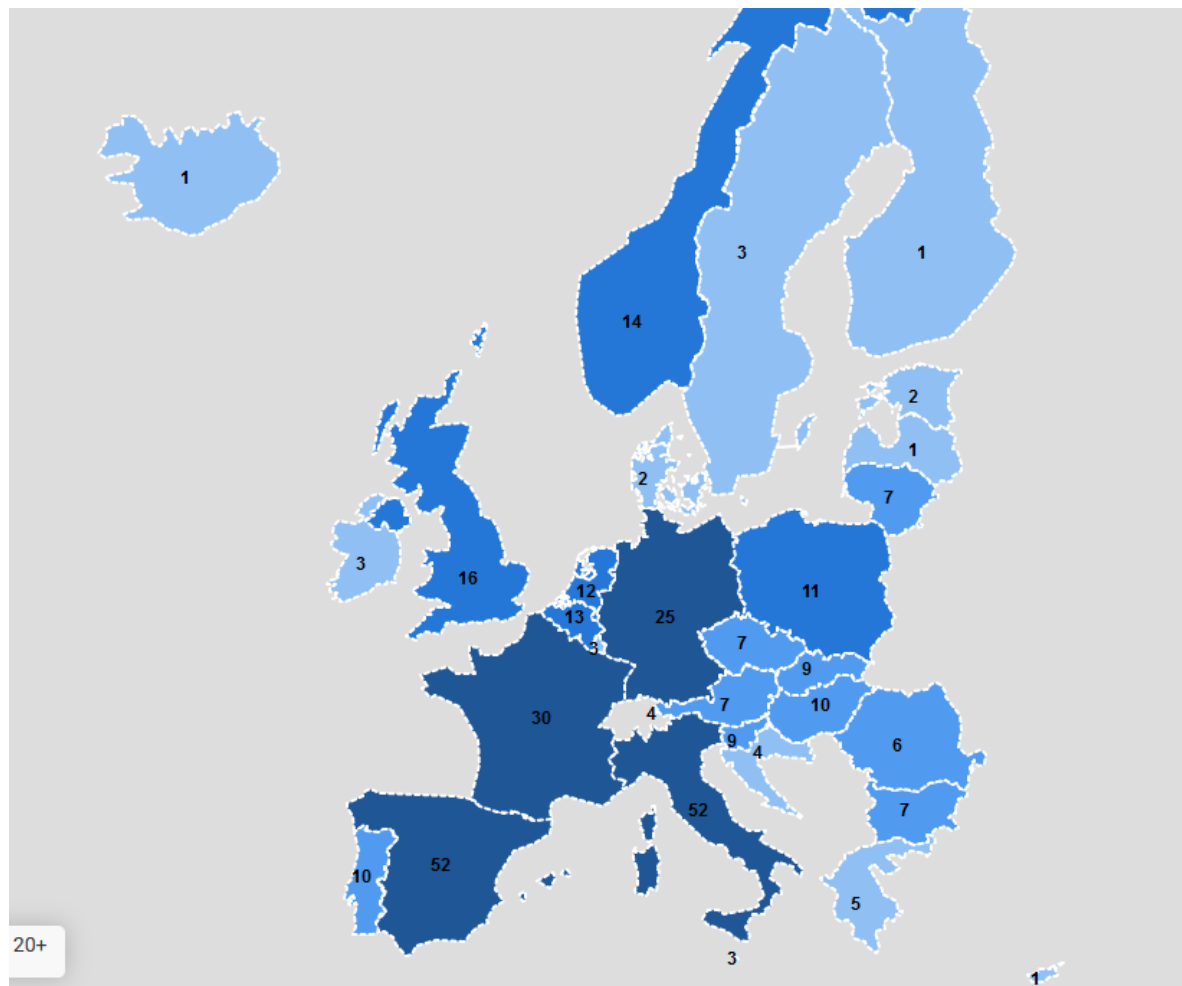
Provides regulatory framework for support for provision of Trust Services across Europe

- Trust Services issuing certificates (i.e. Certificate Authorities) for:
  - Electronic Signatures for Natural Persons
  - Electronic Seals for legal persons
  - Website Authentication
- + Other trust services e.g. Registered e-Mail, Signature Validation

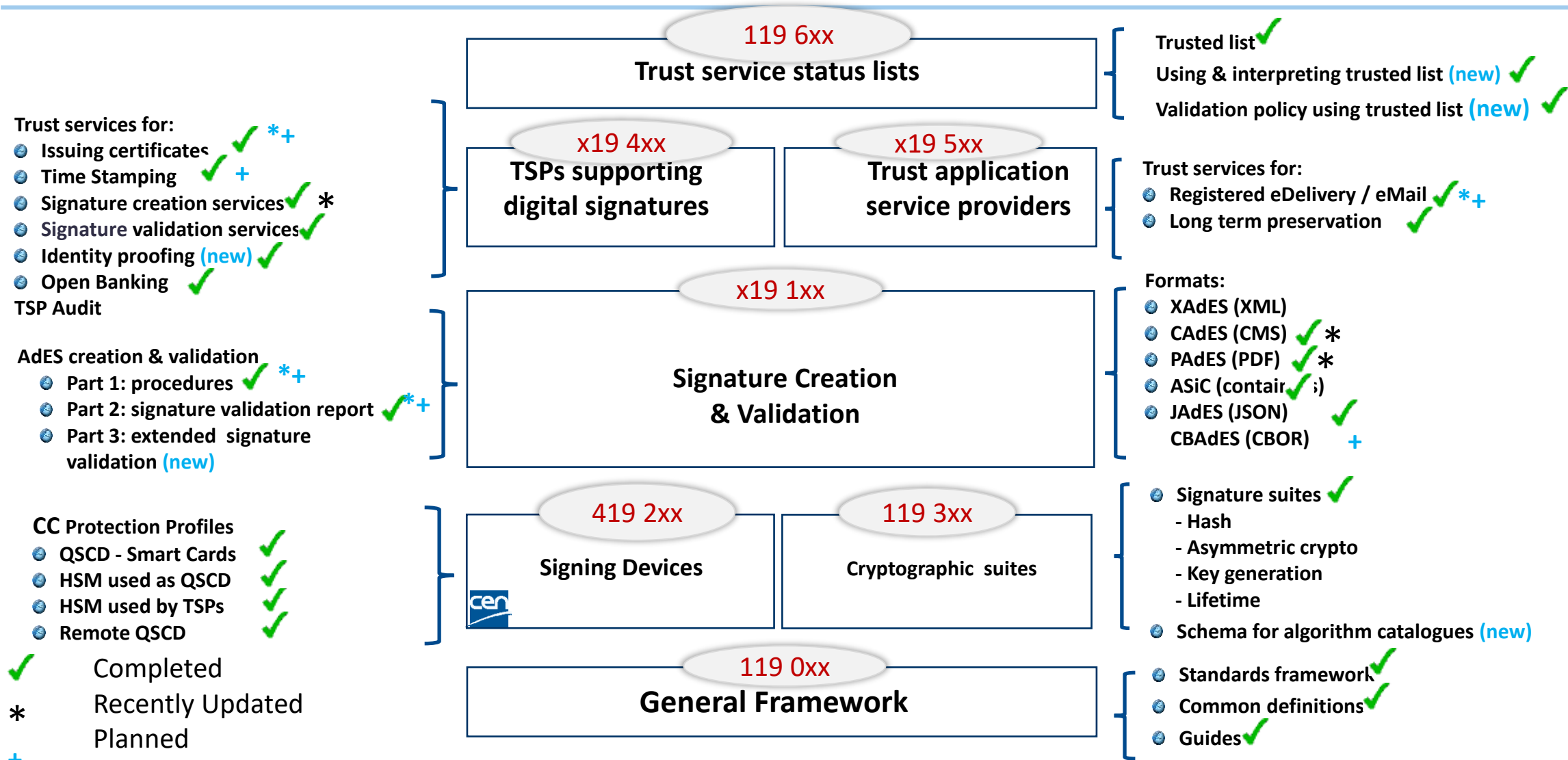
Defines specific requirements for “Qualified” Trust Services

- Functional and certificate content requirements
- Third Party Audit against best practices based on eIDAS regulatory requirement
- Nations issue Trust Lists of “Qualified Trust Service Providers”

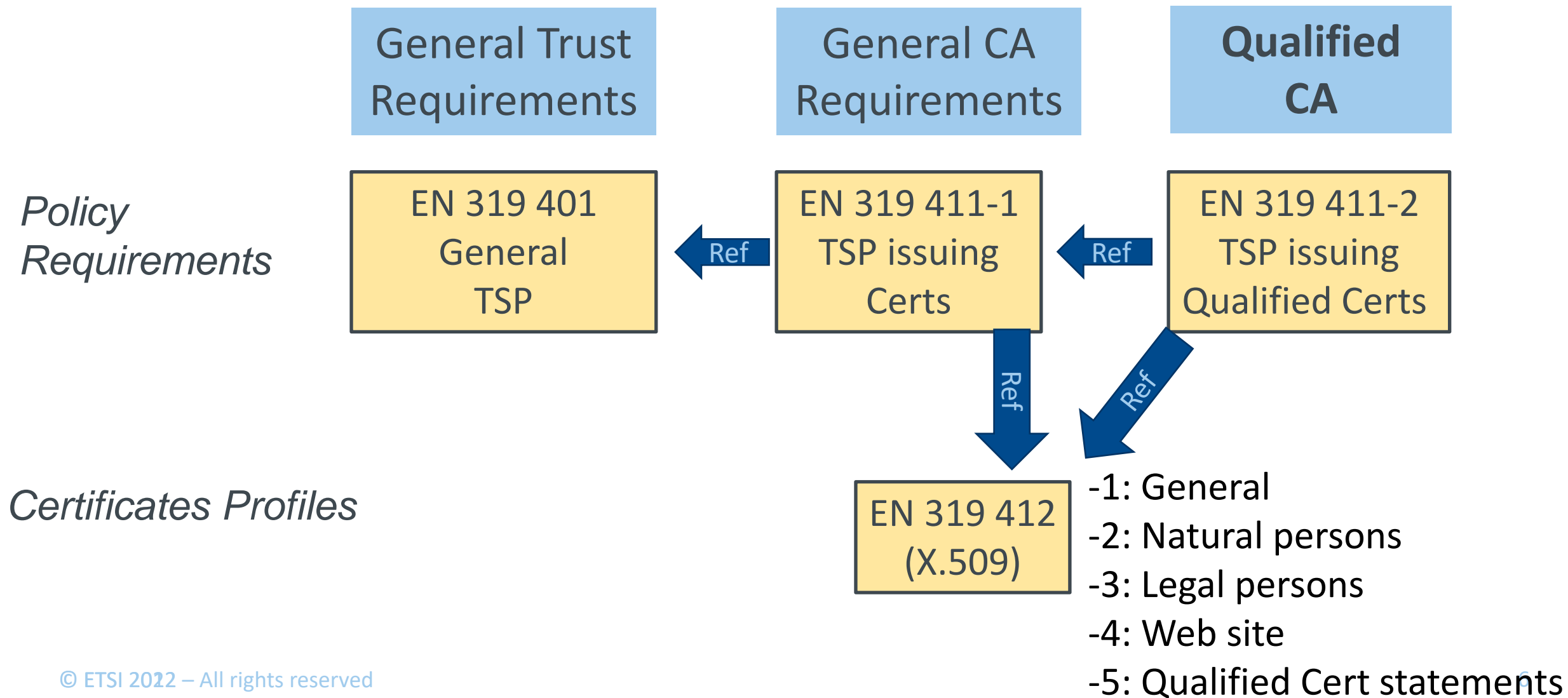
# QTSP in Europe Sept. 2022, see: EU Trust Services Dashboard:



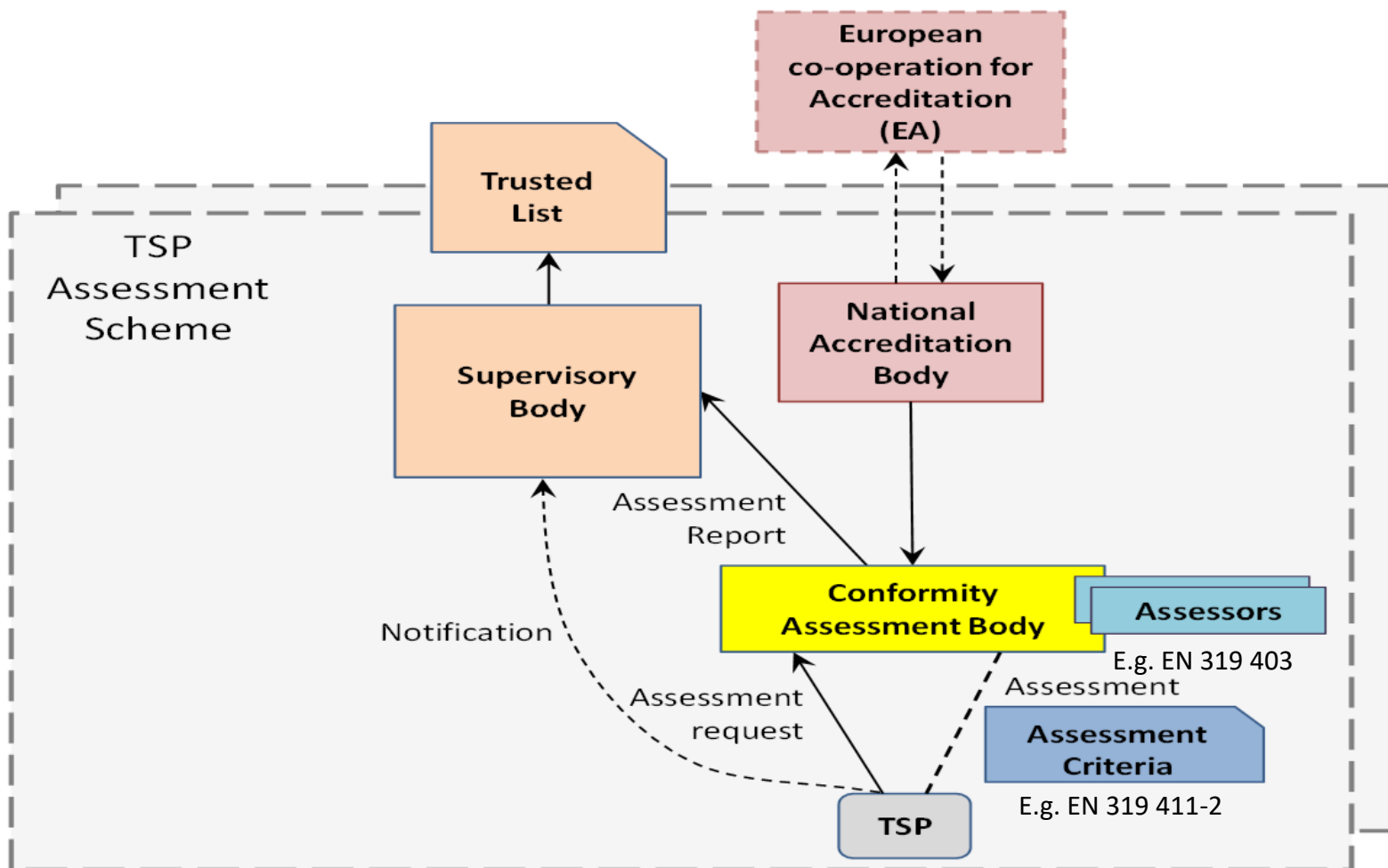
# ETSI & CEN Standards supporting eIDAS – the overall picture



# Trust services issuing certificates: ETSI standards overview



# eIDAS Audit Framework (Art 17, 18, 19)



TSP+CAB+SB=>TSL

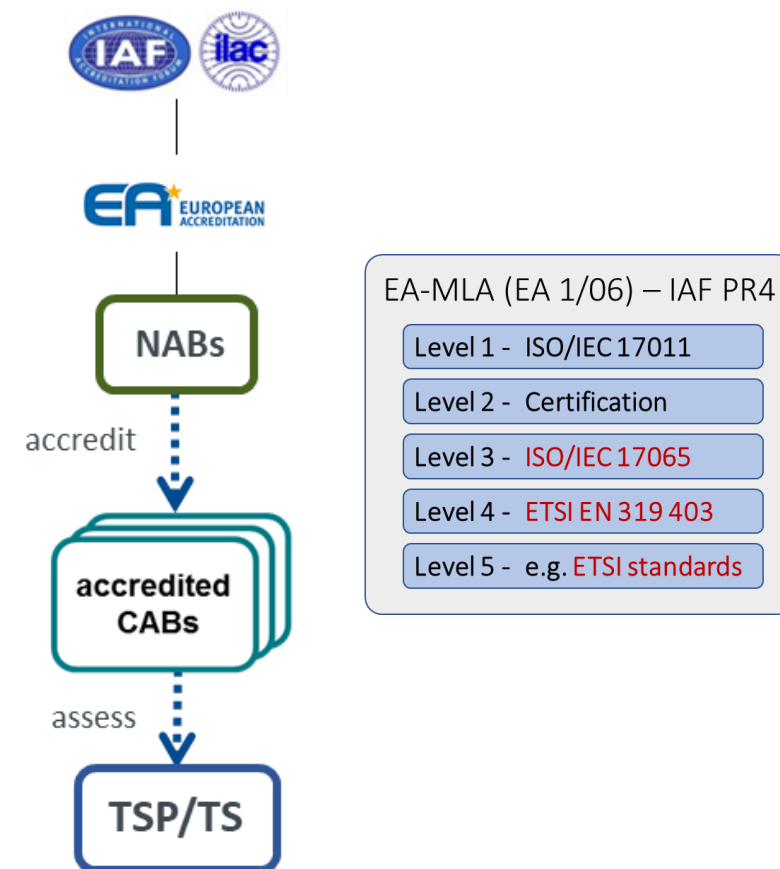
# ETSI Best practise audit framework

## EN 319 403-1 on requirements for bodies auditing TSPs

- Primary reference: **ISO/IEC 17065** specifying general requirements for conformity assessment bodies (CABs) performing certification of products, processes, or services
- Supplements ISO/IEC 17065 to provide additional dedicated requirements for CABs performing certification of TSPs
- Incorporates additional requirements on CABs relating to the audit of a TSP's management system, as defined in **ISO/IEC 17021** and in **ISO/IEC 27006**

## New supplements on additional requirements for CABs auditing

- Part 2: TSPs issuing PTC (e.g. as in CA/Browser Forum)
- Part 3: QTSPs against eIDAS Regulation





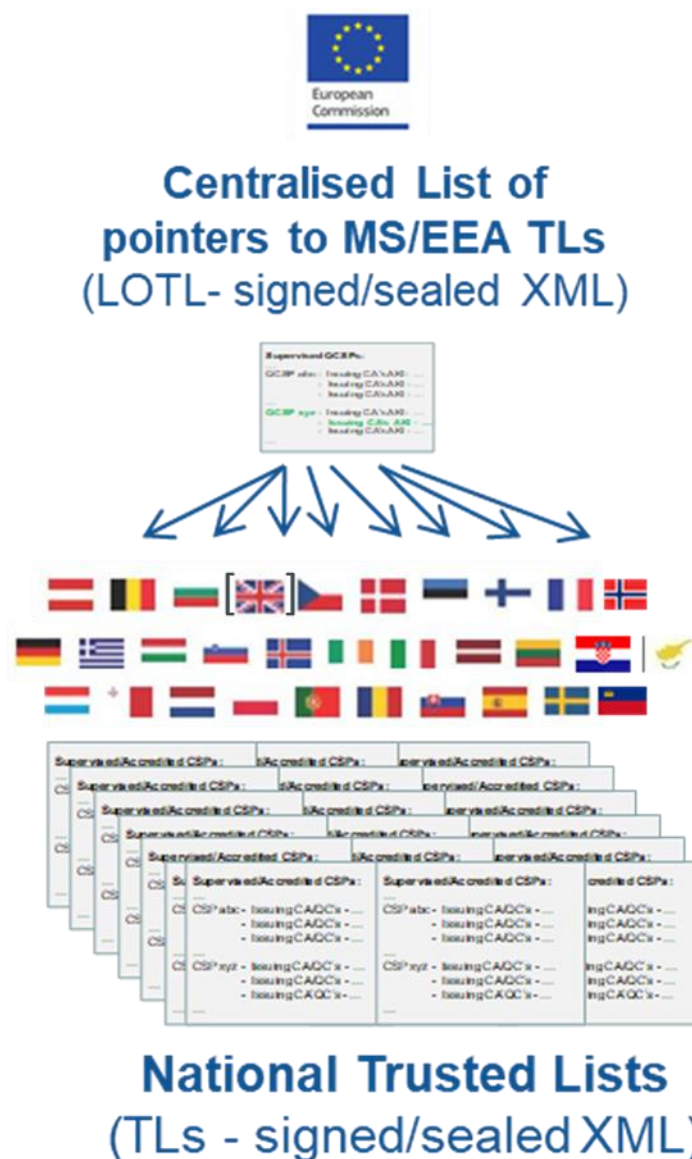
# Trusted List – what it is

## ETSI TS 119 612 (Trusted List)

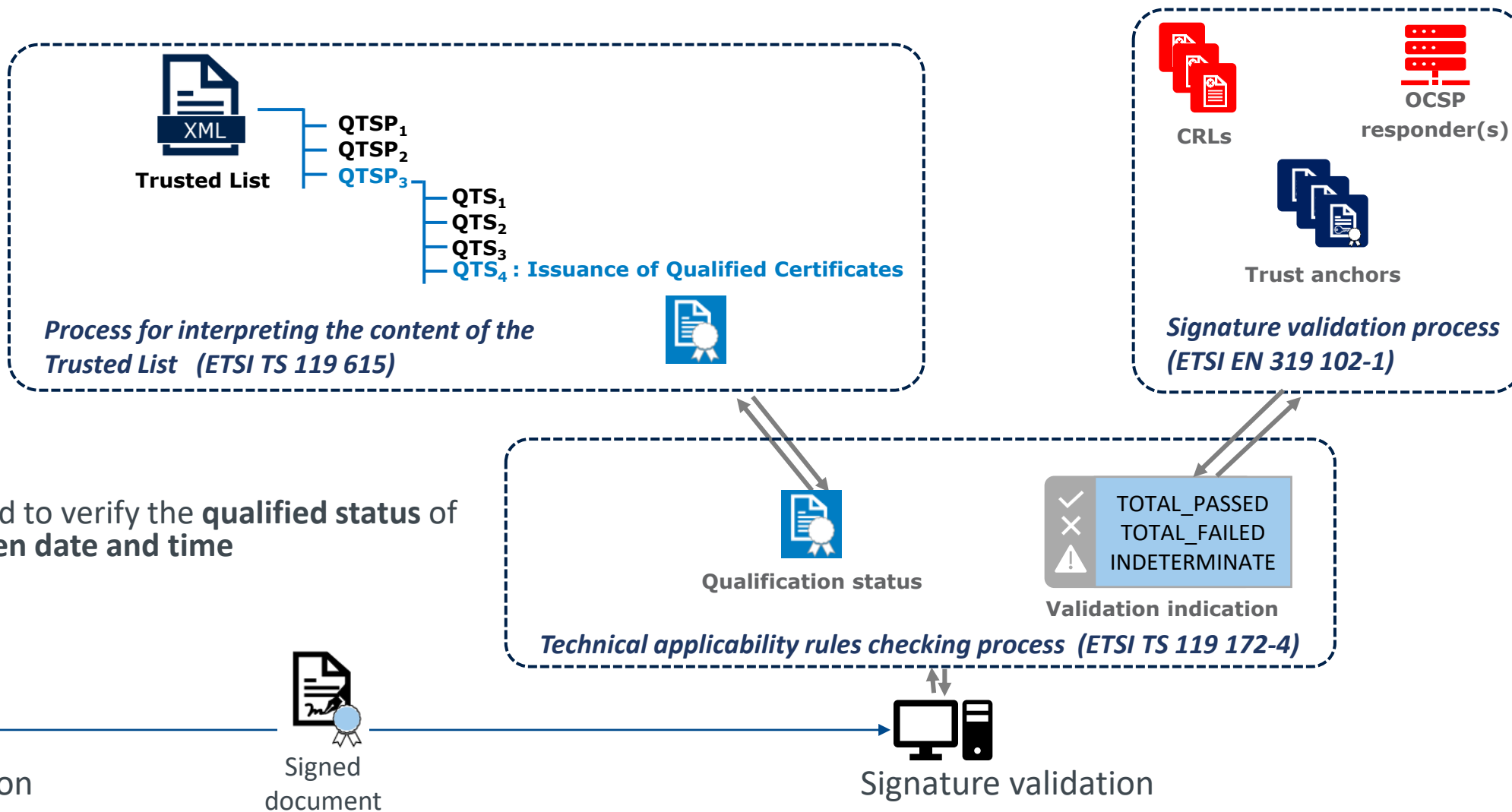
### Regional – Multi-country schemes

- ✓ List of the Lists (LOTL)
- ✓ Facilitating discovery, authentication and grouping of trusted lists pertaining to a common ecosystem / approval scheme

e.g. European LOTL whose authenticity and integrity can be verified via a publication in the Official Journal of the EU and [the concept of pivot-LOTL](#)



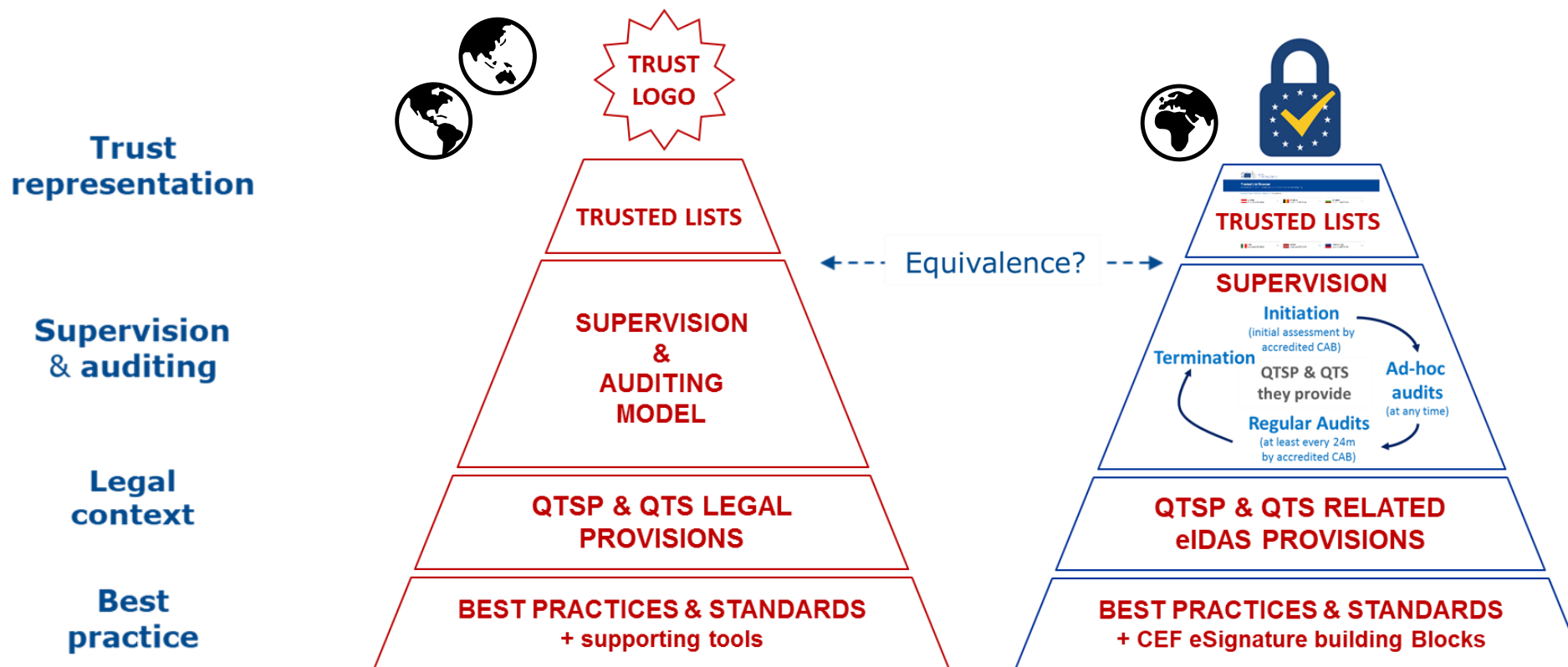
# Trusted List – usage by relying parties



Trusted Lists are used to verify the **qualified status** of trust tokens at a **given date and time**

# Mutual recognition of electronic trust services

## Four-pillar methodology



## Further information

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Information on Signatures and Trust Services standards :

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

ETSI standards: available for free download: <http://www.etsi.org/standards-search>

News list on Signatures and trust services:

[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)

The slides & a recording of the training session on eIDAS trust Services:

<https://www.etsi.org/events/1926-webinar-etsi-standards-for-trust-services-and-digital-signatures>

ENISA Study: Towards global acceptance of eIDAS audits

<https://www.enisa.europa.eu/publications/towards-global-acceptance-of-eidas-audits>

<https://esignature.ec.europa.eu/efda/home/#/screen/home>

