



The Standards People

# EUDI Standardization

## 12<sup>th</sup> Trust Services & eID Forum

**Franziska Granc**

Project Leader EUDIW Standardisation

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Co-funded by the  
European Union



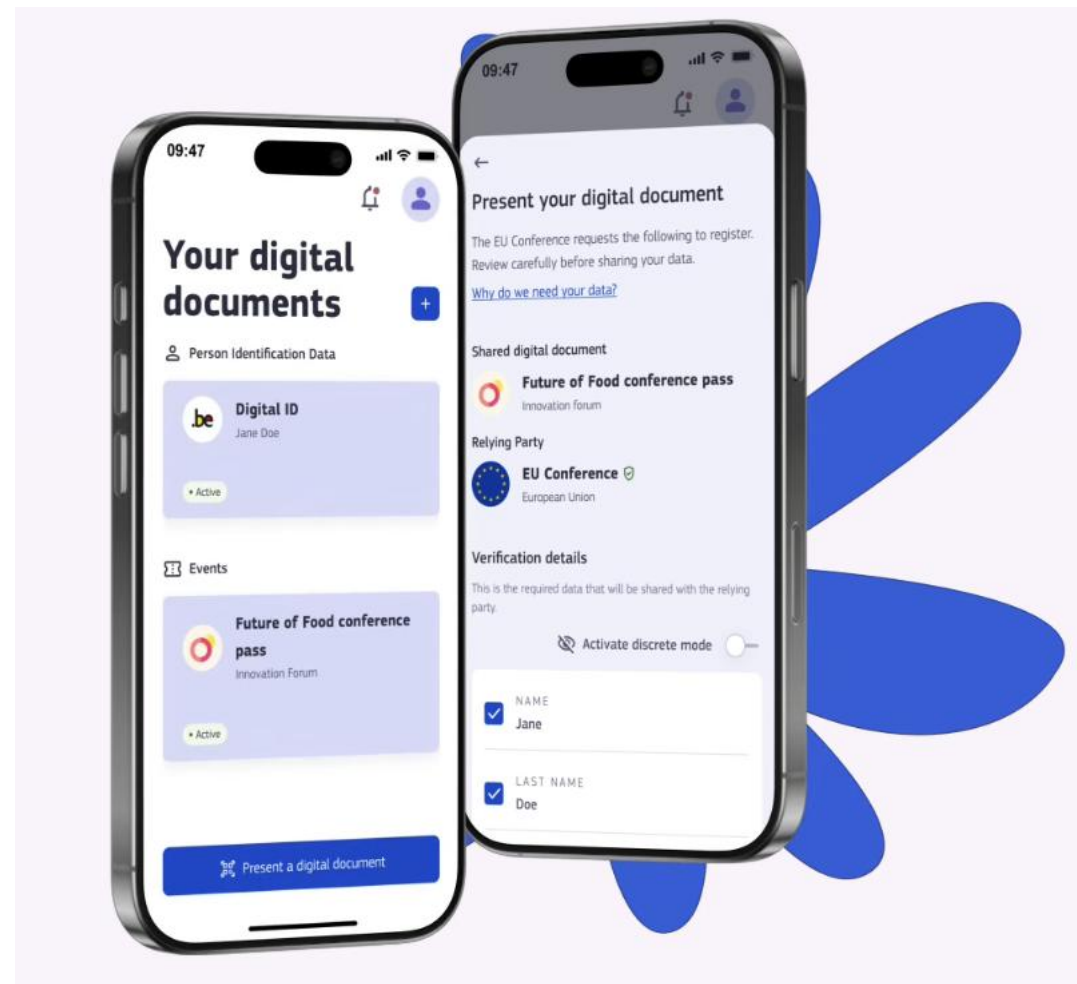
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# European Digital Identity Framework

EU Digital Identity Wallets will provide a **safe, reliable, and private means of digital identification** for everyone in Europe.

Every Member State will provide at least one wallet to all its citizens, residents, and businesses allowing them to **prove who they are**, and **safely store, share and sign** important digital documents.



Source: European Commission

# EUDI Wallet Standardization Landscape



STEP 1 · EU LEGAL & POLICY FRAMEWORK

Regulation (EU) 2024/1183 amending Regulation (EU) No 910/2014 (eIDAS)

Commission Implementing Acts - 34

ARF 3.0.0

STEP 2 · STANDARDIZATION

ETSI  
58 STANDARDS

CEN-CENELEC  
14 STANDARDS

OpenID Foundation  
6 SPECIFICATIONS

CSC  
3 SPECIFICATIONS

OTHER  
69 STANDARDS AND  
SPECIFICATIONS

STEP 3 · IMPLEMENTATION

POTENTIAL

eGov, banking, telecom, mDL, health

COMPLETED

EWC

Travel credentials, org. identity, payments

COMPLETED

NOBID

Cross-border payment authorisation

COMPLETED

DC4EU

Education & social security credentials

COMPLETED

WE BUILD

Business wallet, B2B & legal representation

ONGOING

APTITUDE

Travel & mobile vehicle registration

ONGOING

27 NATIONAL WALLET IMPLEMENTATIONS  
ONGOING

# Introducing ETSI: European based standards organisation - working in global context

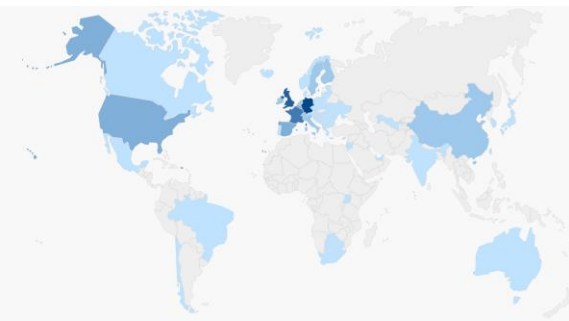


## We are Recognized in Europe

- ETSI is a European Standards Organization (ESO), officially recognized by the European Union
- ETSI supports European regulation and policies
- ETSI standards are key enablers for the Single European Market

## Influenced by and Influencing the World

- More than 100 strategic partnership agreements
- Working with International organisations: ISO, IETF, OpenID
- 900 member organizations worldwide, drawn from over 60 countries and five continents

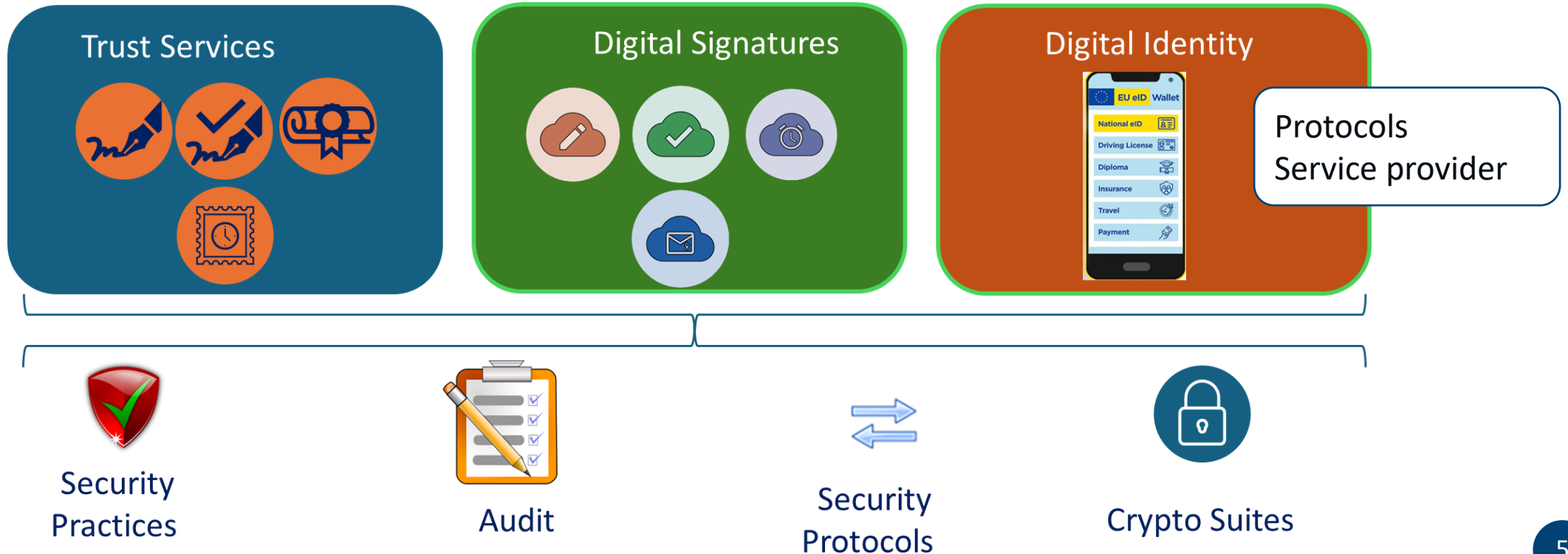


# Who is ETSI – TC ESI?

European Telecommunication Standards Institute (ETSI)



TC Electronic signatures and Trust Infrastructures (ESI)



# ETSI EUDIW Standardization

## Wallets and Privacy

- Mainly new standards around the EUDIW ecosystem, e.g. issuance and formats of EAAs, relying party registration, Zero-knowledge proof, interfaces

## Certificates

- Mainly updates to existing standards for Qualified Trust Service Providers with adaptations to the EUDIW framework

## ERDS

- Electronic Registered Delivery Services, will be even more relevant in the EUBW context

## Signatures

- Mainly updates to existing STS around signatures and signature creation

## Trust Framework

- Foundational standards for whole trust ecosystem, QTSPs, Trusted Lists for new Trust Services, conformity assessment

## New Technologies

- EAA validation, support for EAA with Ades Signatures

**+77**

**Technical Specifications  
& Standards**

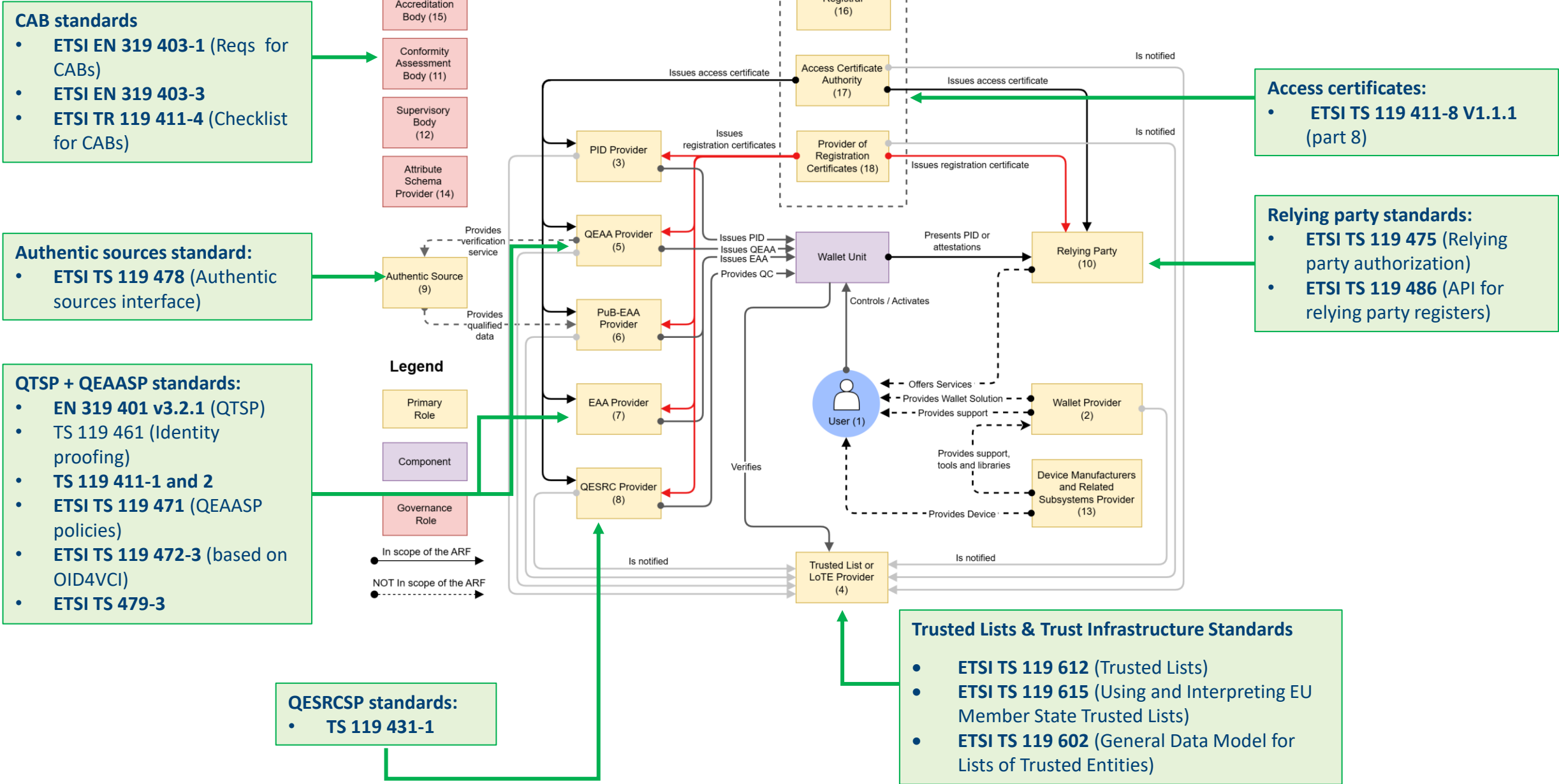
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**Years Programme Duration**

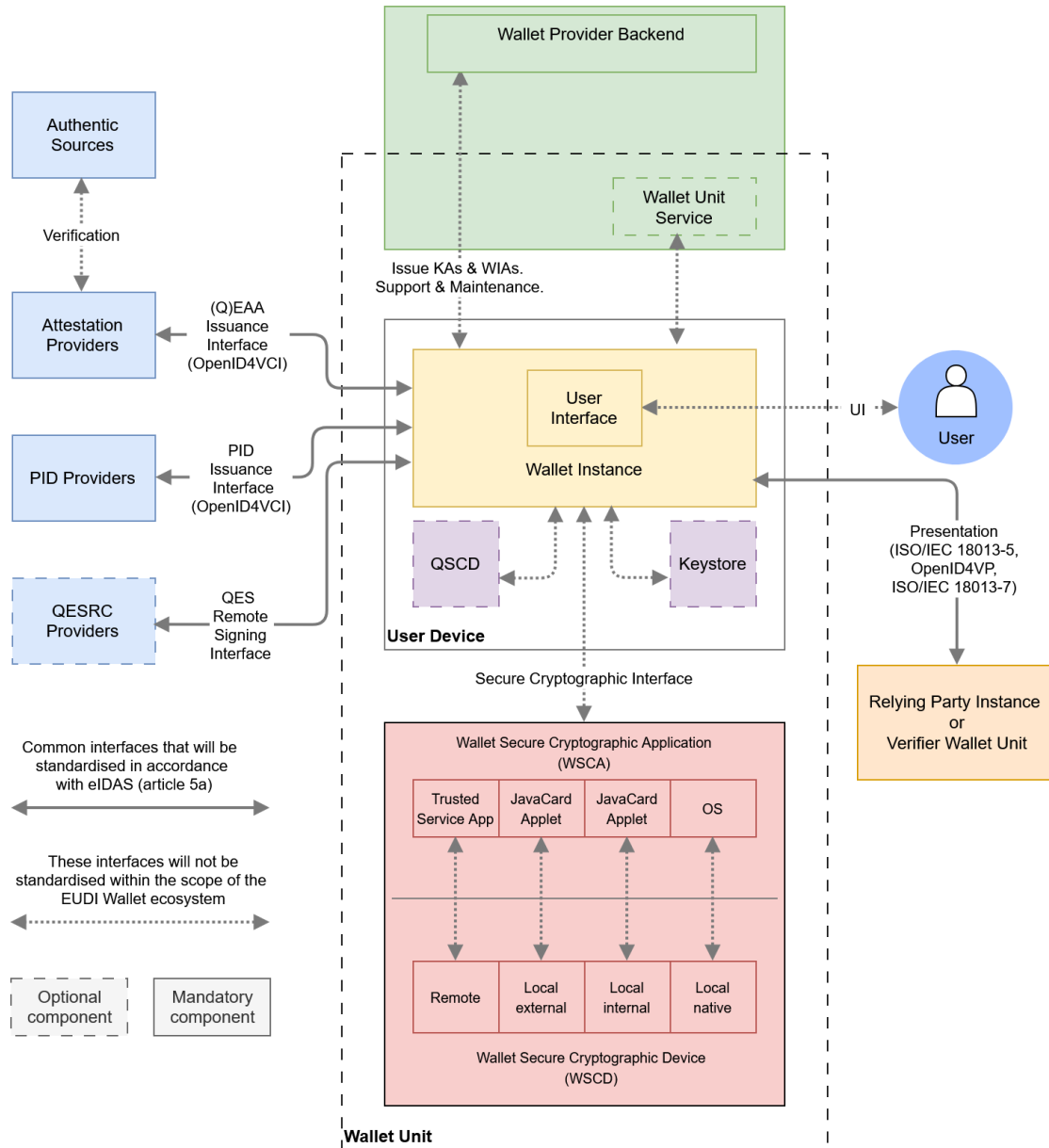
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**Major Milestone Achieved:  
Publication of 24 standards and  
technical specifications**

# Published ETSI TC ESI specifications mapped to the ARF role diagram



# ETSI TC ESI specifications mapped to the EUDIW high-level architecture



## EUDIW standards:

- ETSI EN 319 482-1 (lodging complaints)
- ETSI EN 319 482-2 (data deletion)
- ETSI EN 319 482-4 (Wallet-to-Wallet)
- ETSI EN 319 482-6 (data portability)
- ETSI EN 119 487 (EUDIW Trust Mark)
- ETSI EN TS 119 476-3 (Wallet Unit Attestation)
- ETSI TR 119 462

## EUDIW presentation standards:

- ETSI TS 119 472-2 (QEAA presentation based on OID4VP)
- ETSI TS 119 476-2 (ZKP for EUDIW)

## EUDIW format standards:

- ETSI TS 119 472-1 (QEAA formats)
- ETSI EN 319 482-3 (attestation rulebook catalogues)

# Outlook – Road ahead



1

## Migrating TS → EN

Migrating Technical Specifications (TS) to European Norms (EN).

2

## Lessons from Pilots

Incorporating lessons learned from initial real-world implementations and large-scale pilots.

3

## Interoperability & Conformance

Developing interoperability and conformance testing specifications.

4

## Extending the Standard Set

Extending the standard set to cover additional EUDIW architecture components.

Project completion: October 2027 – but standardization is always ongoing!

# Useful links

- Information on TC ESI and latest published standards: <https://www.etsi.org/committee/esi>
- ETSI standards: available for free download <http://www.etsi.org/standards-search>
- 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)
- EUDIW standardization details: <https://portal.etsi.org/xtfs/#/xTF/705>

## Next public Event:

- ❖ **29/09 – 01/10/2025 Sophia Antipolis: Open joint CEN/ETSI workshop on EUDIW standards**

