Unlocking the full power of identity to enable people, economy and society to thrive

Identity for Good Open Standards Outreach Industry Services Community



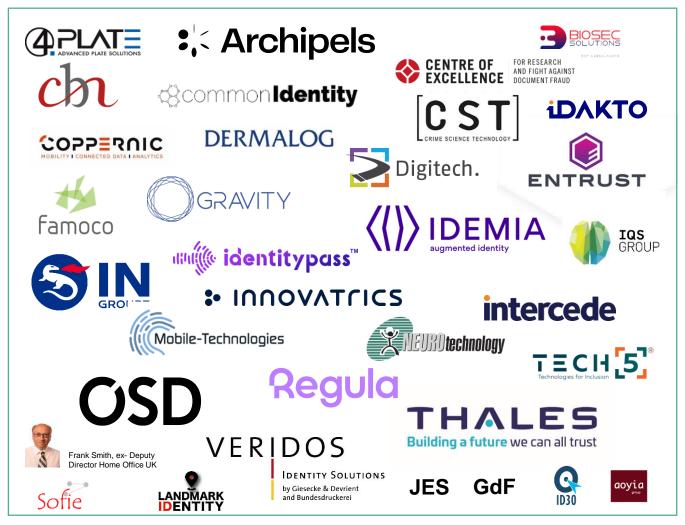
OSIA

Unlocking the ID Ecosystem with OSIA

A universal interoperability framework for innovation, competition, and sustainability

60 Private and Public Company, Government, IGO, NGO, Foundations, Academic Members & Affiliated Members







Advocacy – Policy - Application





7 K

We collaborate

- Enable and develop meaningful dialogue between civil society, governments, intergovernmental organisations and industry
- Advance positive ID policy, promoting the foundational role of ID for rights protection, social inclusion & economic development
- Build capacity and knowledge and share best practice
- Promote innovation and ensure a level playing field across the identity ecosystem, and develop open identity standards
- Contribute key insight and expertise into issues across the secure identity lifecycle
- Develop our respected community of thought leaders



We believe in open standards

SIA is an ITU A5 Qualified Organisation



We are committed to a strict code of conduct

Join an active and supportive community of government, academia and industry experts!



Guiding the design, manufacturing, issuance and verification of convenient and cost-effective secure documents.

DIGITAL IDENTITY



Driving the development and adoption of secure, trusted, effective and inclusive services.

BORDER



Delivering best practices for seamless and secure borders.

BIOMETRICS



Promoting the use of biometrics to enable secure, convenient and privacy-led identification for citizens. e-SEC

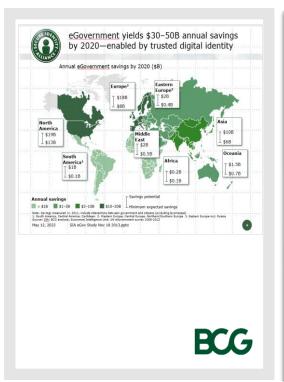


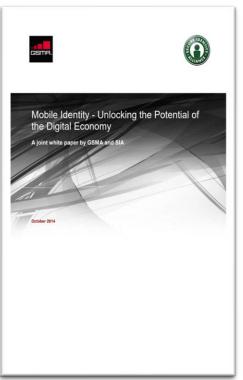
Unlocking the full power of identity

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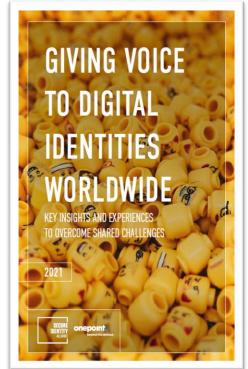
SECURE Identity Alliance

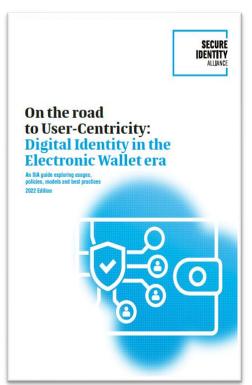
SIA perspective on Digital ID











2013

2014

2016

2021

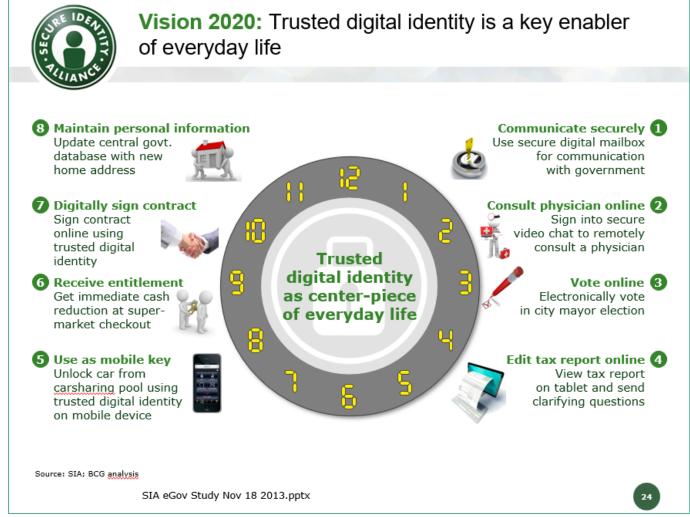
2022

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A major technology uptake





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A shift in circumstance

SECURE IDENTITY ALLIANCE

- Mobility has taken the world
- Covid has accelerated and extended use cases
- Digital world has no border and digitalisation breaks silos but...
- Sovereignty and enhanced privacy* are needed, and
- Digital accountability too => trust in digital world
- Inclusion agenda and needs
- Sectoral needs ie. KYC for regulated services, Health etc.
- Cloud-computing trend
- Ergonomics/ Contextual intelligence development
- Offline functionality still required!

Smartphone Users

50%

By 2025

Commerce Value

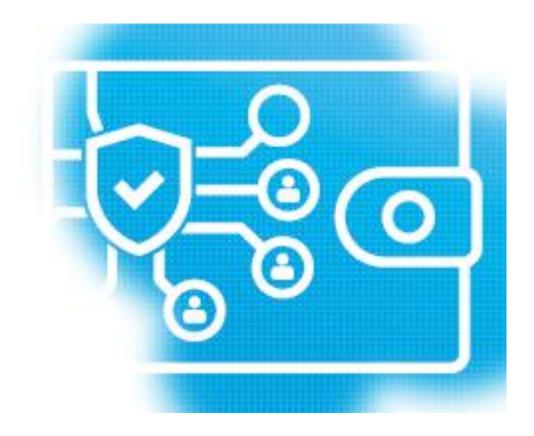
52,5%

By 2025

A shift in convenience



- Redesigned around user and usage experience
- Works online and offine
- Brings additional security, sovereignty and privacy benefits
- Greater variety of architectures No 'one size fits all'
- New standards, protocols and data models



Governments' responsability



The roads to build a Digital ID Wallet approach and the consequences on the intermediations between services and users are very important.



Governments are camping increasing responsability in structuring a trust anchor, the level of exigencies, legal liability and interoperability!







OEM (eg. Apple, Google)

The EU Vision – From eIDAS 1 towards



"Every time an App or website asks us to create a new digital identity or to easily log on, via a big platform, we have no idea what happens to our data in reality. That is why the Commission will propose a secure European e-identity. One that we trust and that any citizen can use anywhere in Europe to do anything from paying your taxes to renting a bicycle. A technology where we can control ourselves what data and how data is used."

Ursula von der Leyen, President of the European Commission Source: State of the Union speech addressed on 16 September 2020

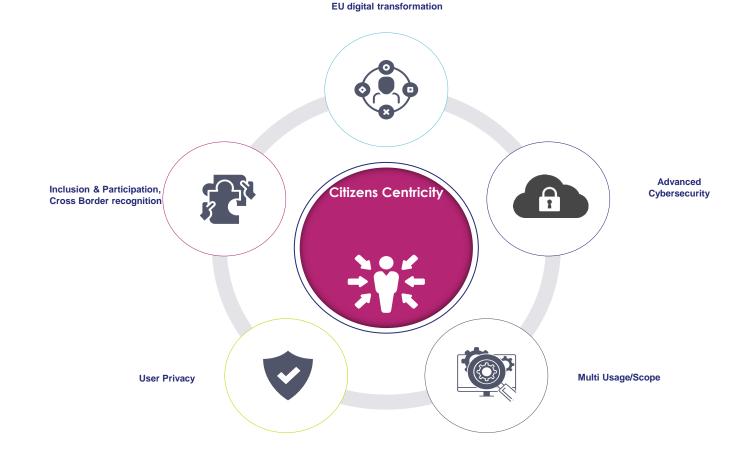
72% of users want to know how their data is used when they use social media accounts.

63% of EU citizens want a secure single digital ID for all online services Source: Eurobarometer survey

The EU Digital ID Wallet



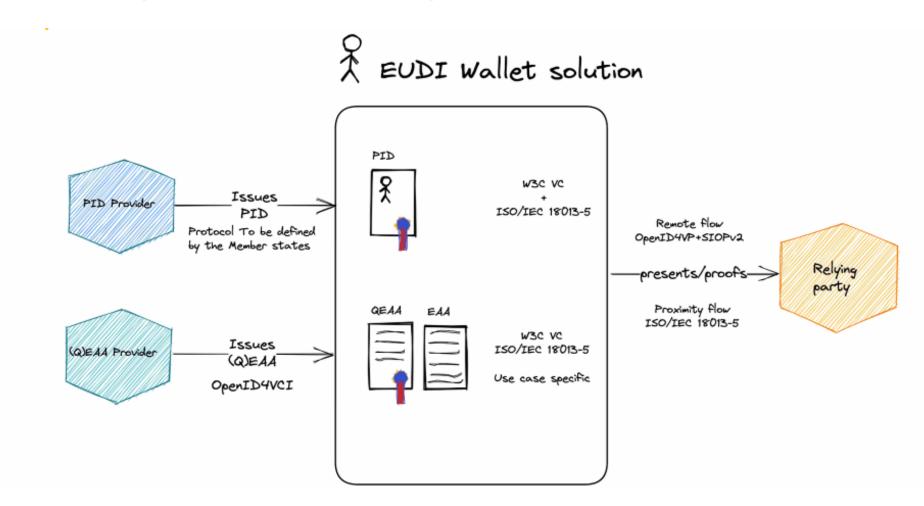




User Experience /

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The EU Digital ID at a glance



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The EU Digital ID 3 key principles



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Free to be used by all citizens



All EU citizens and businesses may use it for free on a voluntary basis.

Accepted everywhere



Recognized by private and public providers for all transactions that require authentication.

Secure and privacy oriented



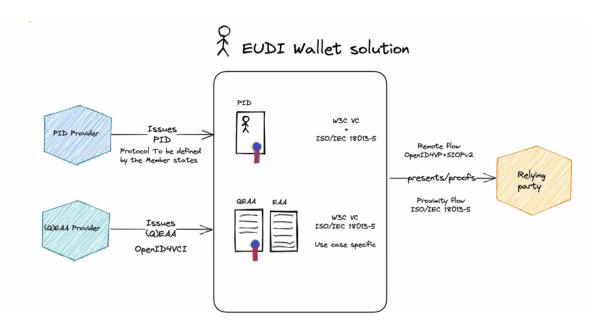
Citizens can control and protect their identity, personal data and digital assets.

Unlocking the power of identity

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The European Digital Wallet program

- Each member state to issue a digital wallet under a notified eID scheme:
- Built on common standards
- Following compulsory certification for a high level of assurance
- Proposing a « Union Toolbox » defining the digital identity framework
 - One goal: boost the European Economy with digital identity as the foundation of the digital program





New Mandate from EU to Member States

Wallet ISSUANCE

EU request Each Member State **must**

- Notify at least one Wallet based on eID high
- Enable verification of minimal ID attribute(s) through sources
 - (ie. address, age, gender, civil status, family composition, nationality, educational qualifications, professional qualifications, public permits & licences, financial & company data, etc...)
- All EU wallets (public and/or private) must be notified to the EU Com



Wallet ACCEPTANCE

EU ID Wallet shall be accepted by:

- Public services
- Private services expecting SCA
 - transport, energy, banking and financial services, social security, health, utility companies, postal services, digital infrastructure, education, telecommunications ...
- Very large online platforms (ie. GAFAs)
- Others: voluntary code of conduct
 - Commission review 18 months later.

INTEROPERABILITY & SECURITY

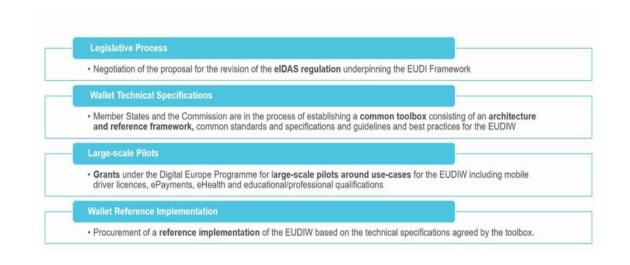
The Commission aims at uniform implementation

- Delegated / Implementing acts rather than directives
- Security certification replaces peer review
- Unification of technical implementations via toolbox

An innovative co-elaboration process



- Commission and member States: define the e-ID scheme, provide guidelines and define compulsory certification
- Member States: implement their own infrastructure on a common framework
- Industry: proposes a reference design to be reused.
 - EU legislation is progressing in **parallel** with the selection and delivery of supporting technology.
 - Use cases are defined in parallel of the supporting technology



Milestones



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Four large scale pilots



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20 countries

56 public and 80+ private entities

Use cases:

Electronic Government services, Bank Account opening, SIM registration, mobile driving licence, Remote Qualified Electronic Signature and ePrescription.

23 countries

36 public and 40+ private entities

Use cases:

Educational credentials and professional qualifications, Portable Document A1 (PDA1), European Health Insurance Card (EHIC).



Digital Credentials for Europe

EU Digital Identity
Wallet Consortium.

NOBID Consortium

19 countries

18 public and 40+ private entities

Use cases:

Digital Travel Credentials, Payments, Legal persons

8 countries

6 private and 15 private entities

Use cases:

payments use-cases at both a crosscountry and cross-sector level with partners coming from both private and public sector

Total budget: >90 Million (50% EU contribution), >250 Participants,



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A new ecosystem

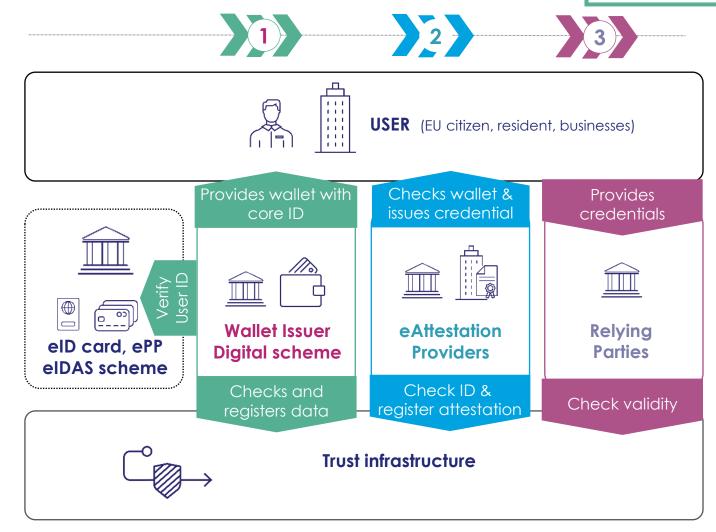






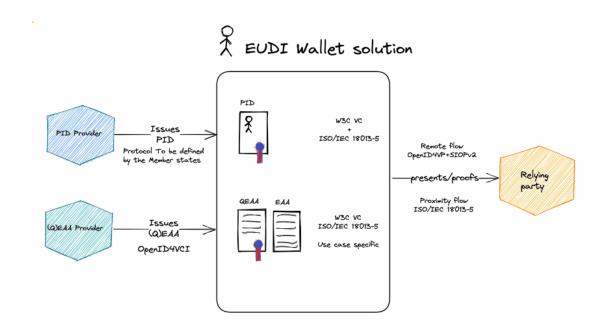
ENABLING THEM THROUGH THEIR WALLET TO

- Control their personal data
- Prove their identity
- Authenticate online,
- eSign documents
- Obtain digital evidence of identity attributes from providers of electronic attestation of attributes



A common framework does not mean uniformization

- All Member States have different requirements and specific needs
- Different technologies of implementations may be possible
- The EU common framework creates the conditions of a smooth harmonization.





Building a regional interoperability in Africa

Africa like any continent in the world is going digital

Need for federation and interoperability of Digital ID

African countries are federating their effort to develop the Digital Economy:

- African Union Digital Transformation Strategy for Africa
- African Continental Free Trade Agreement, the African Union Digital Transformation Strategy for Africa, the Malabo Convention on Cyber Security & Personal Data Protection,
- AU + UNECA's Pan-African Trust Framework
- ECOWAS + WURL
- Multiple other local, regional and international initiatives and actors



Building a regional interoperability in Africa

Many African States have already key building blocks to support Digital Trust:

- Management of cybersecurity with deployment of State PKI (Public Key Infra)
- Most African States have developed ICT policies
- National Electronic Identity Cards are deployed in many countries
- Smartphones penetration is growing

African Regional Organizations could leverage the EUID initiative

- Re-use the common state of the art made by EU in terms of ID schemes and certification of components
- Mobilize ICT ecosystems to think globally regional usecases.
- Leapfrog and avoid mistakes (eIDAS 1)
- Adoption of international standards important interoperability with the rest of the world

OSIA's approach

A universal interoperability framework as a set of open standards interfaces (APIs)

- ✓ developed by the identity industry
- √ in partnership with governments

Sovereignty of **Technology** Privacy by **Neutrality** Choice Design PbD impacts also the OSIA does not define the OSIA does not mandate the technology/implementation of workflow between modules interfaces and OSIA nor the architecture of any ID the modules, it focuses on the implements a set of PbD management solution interface level principles



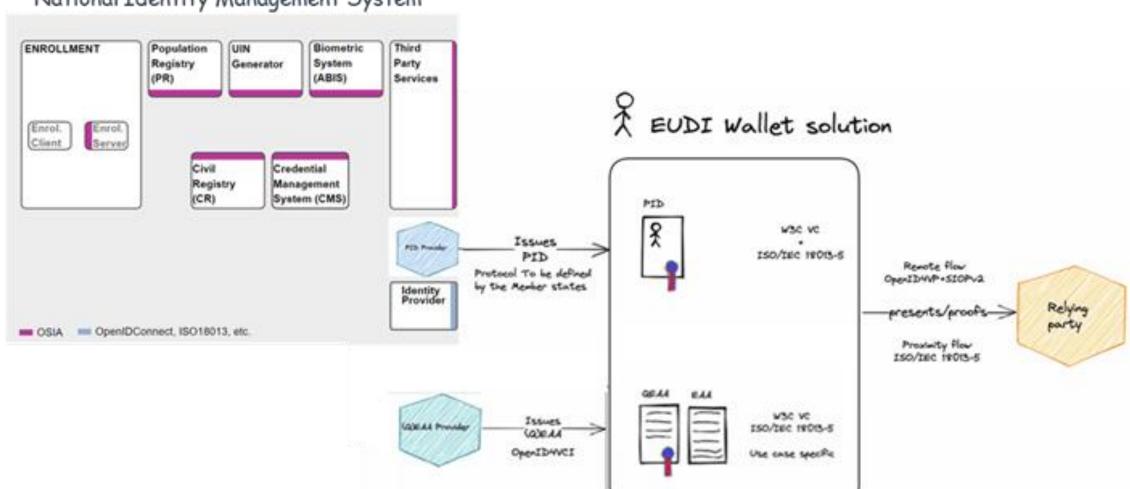
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OSIA for PID

National Identity Management System



OSIA

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www.secureidentityalliance.org

The heritage and expertise of our members

Our members have over

30,000

scientists, experts & professionals

Our members have experience in over

190

countries

Our members have developed key ID related technologies covering over

85%

of world's population

Our members have participated in the development of over

1000

ID related standards

Unlocking the full power of identity 25



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Reference Implementation

Objectives

- Building reference technical infrastructure to support interoperability and implementation of the EUDIW and its ecosystem
- Supporting Member States and other stakeholders in developing, implementing and scaling up the EUDI Framework
- Enabling large scale pilots by providing reference wallet and use-cases in national / stakeholder context

Scope

- Authentication (Q2 2023)
- Identification & mDL (Q3 2023)
- Subsequent releases (e.g. extended functionalities, feedback from pilots)

Outcome

 Open-Source reference wallet application and libraries tested, certified, ready to be used by Member States to implement the wallet.



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The Architecture and reference framework

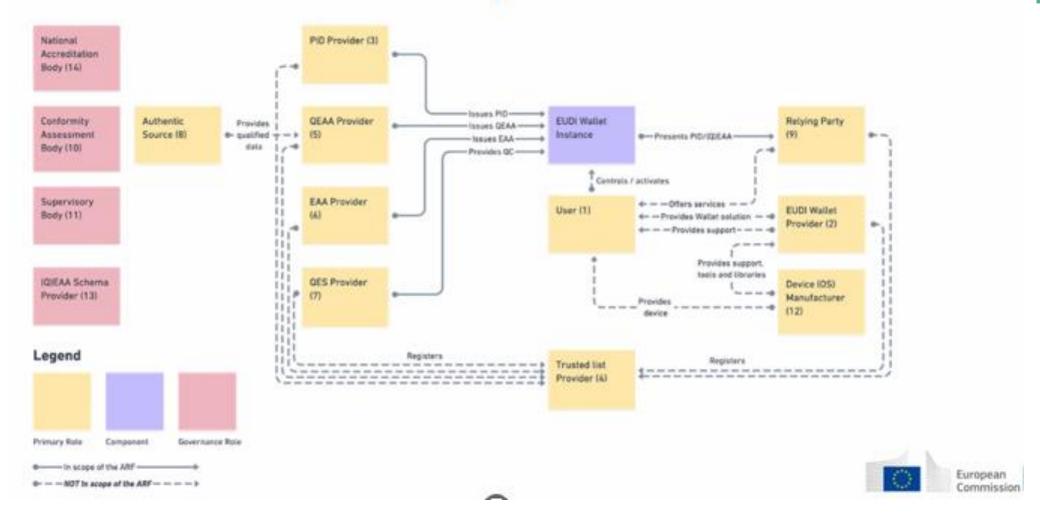
- The first release of the ARF represents the initial consensus version containing the fundamental elements necessary for developing an EUDI Wallet prototype.
- The architecture is a moving target due to the legislative process still on going.
- The document is open and shared on <u>github</u> to collect feedback from stakeholders.
- New releases with additional specifications will come in short cycles based on the feedback received. The next one is expected in April.





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The EUDI Wallet ecosystem



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OSIA GITHUB PAGE

https://github.com/SecureIdentityAlliance/osia

OSIA DOCUMENT

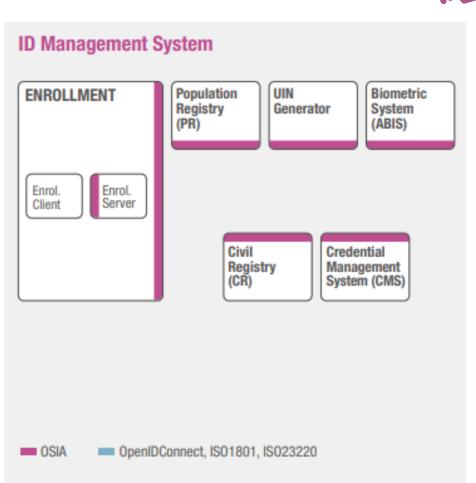
https://osia.readthedocs.io/en/latest/

OSIA QUALIFICATION

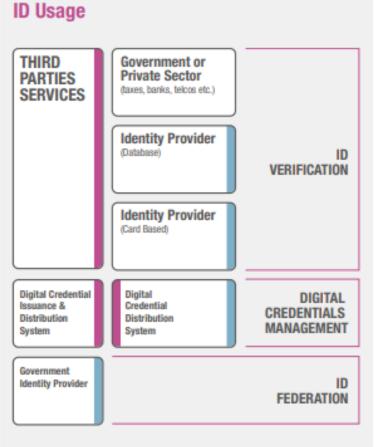
https://globalplatform.org/osia-qualification-program/



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OSIA interfaces scope



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Use-Cases targeted by eIDAS Expert Group

- 1. Basic use cases
- Online identification
- Electronic signatures
- 2. Proposed priority use cases
- Mobile driving license
- eHealth: Patient summary
- eHealth: ePrescription
- Digital Travel Credential
- Payment instruments
- Diplomas
- 3. Other use cases

Other potential use cases Identified

Possible Use Cases - Single Digital Gateway Regulation (Annex II)

- Registering a motor vehicle originating from or already registered in a Member State, in standard procedures
- Applying for a tertiary education study financing, such as study grants and loans from a public body or Institution
- Submitting an initial application for admission to public tertiary education institution
- Requesting academic recognition of diplomas, certificates or other proof of studies or courses
- Registering a change of address
- Claiming pension and pre-retirement benefits from compulsory schemes

Social Security

- European Health Insurance Card
- Portable Document A1

Private Sector

- Age verification
- Education: Microcredentials
- Hotel check-in
- Open a bank account
- IoT (e.g. car keys)
- Product authenticity checks