Demonstrating Digital Identity Wallets

OIX Identity Trust Update

18 May 2023

Speaker Roles

Realising The Dream
From Regulation to Production

Consented Data Exchange and
Verification Services with Digital Wallets

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eIDAS 2.0, EWC and iGrant.io

Demo and three use cases

eIDAS 2.0

Proposed with the goal of making a European Digital Identity available to all EU citizens, residents and businesses who want to identify themselves or provide confirmation of certain personal information.

eIDAS 2.0 introduces a European Digital Identity Wallet (EUDIW) that allows users to exchange electronic attestations of attributes authenticated by qualified trust service providers and gives them more control over their personal data to access EU-wide online services, as well as to sign and seal electronically

- The intention is that 18-24 months after the Regulation comes into force, all Member States will make a digital identity wallet available to every citizen who wants one.

- For users, the adoption of the wallet will be voluntary: it is hoped that 80% of EU citizens will have adopted a digital identity wallet by 2030.
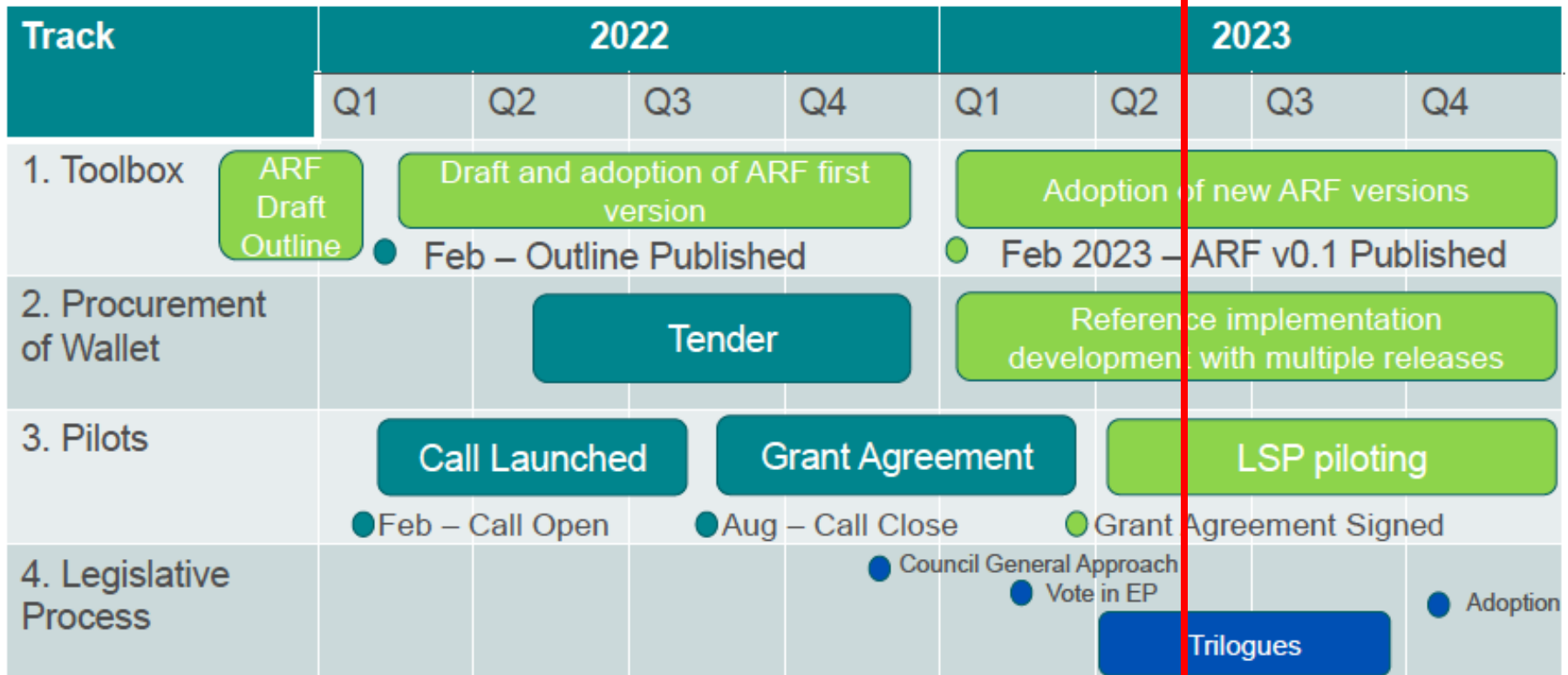
For citizens, governments, and a wide range of public and private service providers, this is a massive set of challenges and opportunities.

Four Work Strands

1 Member States and the Commission establishing a common toolbox consisting of an architecture and reference framework, common standards and specifications and guideline and best practices

2 Procurement of a reference application of the EUDI Wallet based on the technical standards agreed by the toolbox

Track	2022				2023			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1. Toolbox	ARF Draft Outline	Draft and adoption of ARF first version			Adoption of new ARF versions			
	● Feb – Outline Published				○ Feb 2023 – ARF v0.1 Published			
2. Procurement of Wallet		Tender			Reference implementation development with multiple releases			
3. Pilots		Call Launched		Grant Agreement		LSP piloting		
	●Feb – Call Open		●Aug – Call Close		○Grant Agreement Signed			
4. Legislative Process					●Council General Approach ● Vote in EP	Trilogues		● Adoption

3 Large scale pilots funded under the Digital Europe programme around use cases for the EU DI Wallet

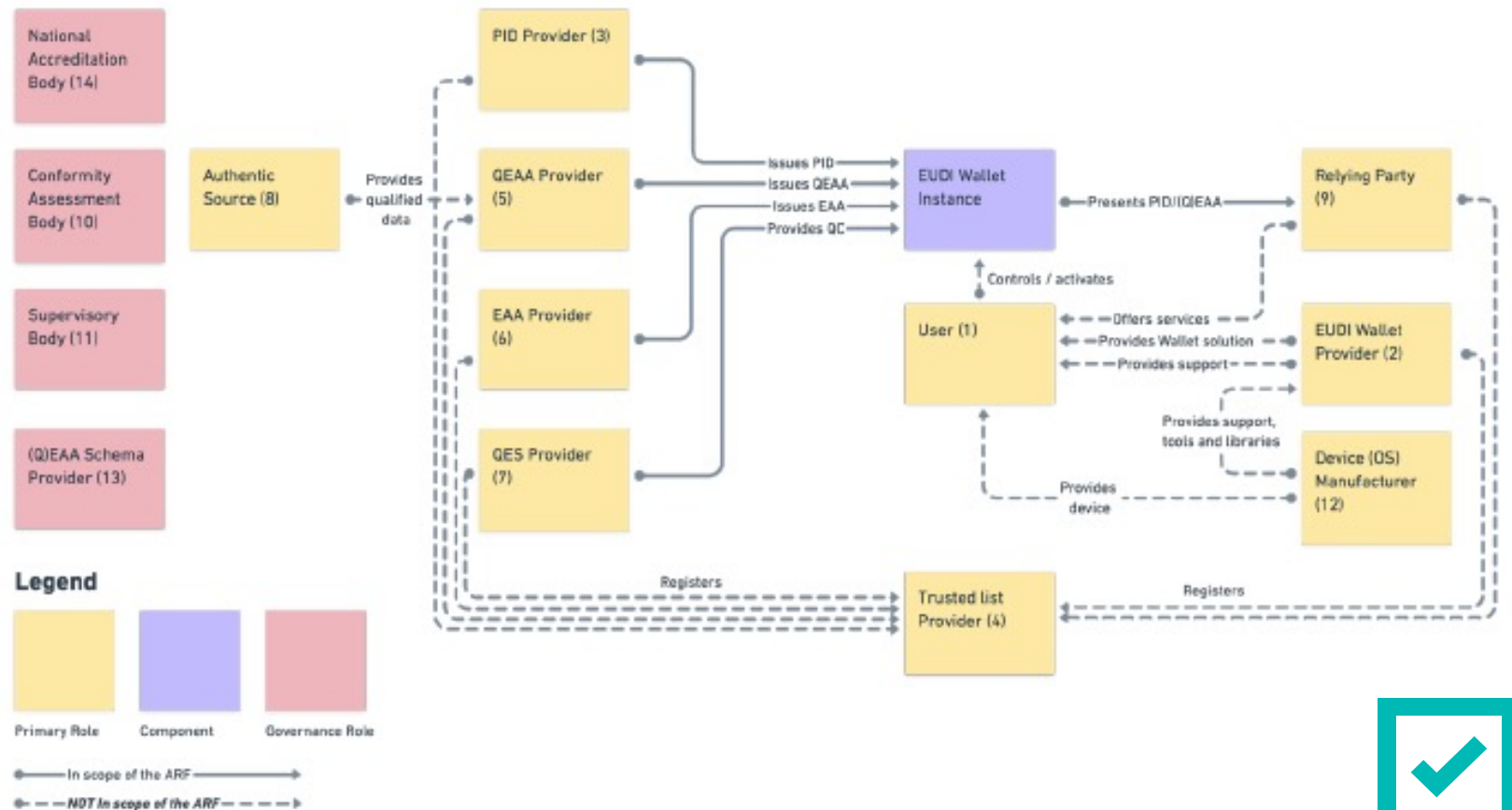**4** Negotiation of the proposal for the revision of the eIDAS regulation

The European Digital Identity Wallet Architecture and Reference Framework (ARF)

Its purpose is to provide a set of the specifications needed to develop an interoperable European Digital Identity Wallet Solution based on common standards and practices.

The framework covers topics such as:

- The different roles in the ecosystem
- The types of data exchanged
- How the data is secured
- What standards and formats the data adheres to
- The protocols used to exchange that data

National Accreditation Body (14)

Conformity Assessment Body (10)

Authentic Source (8)

Provides qualified data

PID Provider (3)

QEAA Provider (5)

Supervisory Body (11)

EAA Provider (6)

(Q)EAA Schema Provider (13)

QES Provider (7)

Issues PID
Issues QEAA
Issues EAA
Provides QC

EUDI Wallet Instance

Presents PID/(Q)EAA

Relying Party (9)

Controls / activates

User (1)

Offers services
Provides Wallet solution
Provides support

EUDI Wallet Provider (2)

Provides support, tools and libraries

Device (OS) Manufacturer (12)

Provides device

Registers

Trusted list Provider (4)

Registers

Legend

Primary Role   Component   Governance Role

— In scope of the ARF →
← — — NOT in scope of the ARF — — →

② Digital Wallet Contractor

On 2 December 2022 the Commission announced the results of the procurement and the signing of a framework contract for the development, consultancy and support for the EUDI Wallet between DG CONNECT and a consortium led by Netcompany-Intrasoft and Scytales together with several subcontractors,

The consortium is planning a first software release of the EUDI wallet reference implementation to be produced by June 2023

③ Large Scale Pilots

To get the ball rolling, four large scale consortia kicked off a set of two year pilot projects on 1 April 2023 with a view to realising the vision of enabling EU citizens and businesses to have a digital identity.

To ensure common implementation of the European Digital Identity framework, all LSPs have to be aligned with the outline of the ARF and the process of integration with the iterative development of the reference application of the reference Wallet application

This includes the successful integration of new releases of APIs for:
- requesting EAAs, QEAAs and credentials, presentation and validation of services (including connectivity and compliance tests)
- issuing EAAs, QEAAs and credentials (including connectivity and compliance tests).

Large Scale Pilots: Objectives

Support the piloting of the European Digital Identity Wallets by Member States and relevant stakeholders

Promote the development and deployment of use cases involving both public and private sector stakeholders

Test the interoperability and scalability of use-cases within national and cross-border implementation contexts

Trial user journeys and collect feedback for subsequent updates of the toolbox and the reference application

Promote the opportunities of the EUDI Wallet among stakeholders and users

Help to build the necessary expertise and infrastructure to facilitate provision of the EUDI Wallet

The pilots

- are expected to **coordinate** with each other

- developing **national implementations** must do so in alignment with the ARF and integrate with the iterative development of the reference application

- must progress to **pre-production** and through comprehensive testing demonstrate a readiness to progress into **production**

Large Scale Pilots: Four Consortia

EWC

The *EU Digital Identity Wallet Consortium* will pilot travel use cases, demonstrating how eIDAS will transform the safety, security and convenience of eCommerce, by creating two common building blocks in support of the travel and other use cases – payments and the organisational digital identity (ODI).

DC4EU

Digital Credentials for Europe involves 43 public stakeholders and 50 organizations from 23 States, focussing on the education and social security domains

NOBID

The *Nordic-Baltic eID* consortium from six countries is focused on enabling the use of national eID solutions, in particular on the payments use case for domestic and cross border usage.

POTENTIAL

The *PilOTs for EuropeaN digiTal Identity wALlet* consortium is working in the fields of banking, mobility, health, and administration, involving 148 participants from 19 Member States and Ukraine.

EWC and iGrant.io

All 27 EU Member States and other countries are represented in EWC by 41 beneficiaries and 35 associated partners

Led overall by Bolagsverket, the Swedish registry office, with strong Nordic representation from Norway, Sweden, Finland and Denmark, including LCubed AB

The two technical work packages cover:

- the Reference Wallet integration as well as development of PID and ODI credentials as well as B2B test scenarios

- the strategic infrastructure needed by others including interoperability, overall technical testing, sealing and other aspects

iGrant.io is a brand owned and marketed by LCubed AB, a Swedish company founded in 2017 and based in Stockholm.

- Providing consented data exchange and verification services between data sources and data using services in a fully auditable manner using Web 2.0 / 3.0 technologies.

- Enabling dApps where individuals can aggregate data from multiple data sources and control, grant permissions and transfer their personal data to any data using services in real-time.

iGrant.io does not hold any data from data sources but provides the ability to verify the authenticity of any data using services.