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European Digital Identity Wallets standards Gap Analysis

National foreword

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European Digital Identity Wallets standards Gap Analysis

Analyse des écarts entre les standards existants et les exigences du portefeuille européen d'identité numérique

Analyse von europäischen Normungsbedarfen für digitale Identitätsbrieftaschen

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European foreword

This document (CEN/TR 17982:2023) has been prepared by Technical Committee CEN/TC 224 “Personal identification, electronic signature and cards and their related systems and operations”, the secretariat of which is held by AFNOR.

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Introduction

The proposal of revision of the eIDAS regulation [1] introduces the concept of European Digital Identity Wallet.

Throughout the proposal of regulation, numerous requirements are set forth regarding the Wallet, its functionalities, the services it shall provide to user, as well as its interactions with other entities it shall support.

Interoperability and user experience of the Wallet are key factors for its uptake but also for its large use and reach amongst European population. So much that the proposal of regulation also vests the European Commission with the responsibility to define the technical specifications the Wallet shall meet through implementing acts, which are legally binding. In that regards, standards are crucial.

This technical report aims at supporting the implementation of the Wallet as defined in the proposal of regulation by:

- Identifying the articles and clauses in the proposal of regulation defining requirements that are applicable to the Wallet;
- Identifying for each requirement listed above (1) the available standards or standards under preparation that could be used or considered, as well as their scope of application, and (2) the missing standards (named “Missing Standard” in the document) which may require to start standardization activities;
- Proposing suggestions for standards under preparation so that they fully meet the requirements listed above (named “Recommendation” in the document);

In that regards, this technical report may be useful to several stakeholders:

- European Commission that could use this technical report as a guide when preparing implementing act for the implementation of the Wallet;
- Authorities willing to issue a Wallet or entities willing to provide Wallet that could use it to easily identify available standards on which they could leverage to implement, use or interact with the Wallet;
- Standardization Organisations that could use it to easily identify normalization gaps where they could contribute by preparing standards in accordance with their mandate and core competencies;
- Entity tasked by the European Commission in charge of preparing the European Digital identity Wallet reference implementation;
- Pilot projects launched by the European Commission to build and realize use cases based on the European Digital Identity Wallet;

The purpose of this document that started before the Architecture Reference Framework (ARF) release is to map the legal text (here the proposal of revision of the eIDAS regulation [1]) to available standards and identify possible gaps. Note that the proposal of revision of the eIDAS regulation [1] is likely to be updated as the legislative process is still ongoing at the time of preparation of this document.

1 Scope

This document identifies relevant existing standards and standards work in progress which could support implementation of the European Digital Identity Wallets. It also identifies missing work items and overlaps in standards and is supposed to serve as a roadmap for future standardization projects in the area. This document takes into account the gap analysis produced by TC224/WG17.

This document is based on the proposal of revision of the eIDAS regulation [1] which was the only available text at the time this document was initiated

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
wallet
product and service that allows the user to store identity data and attributes linked to her/his identity, to provide them to relying parties on request and to use them for authentication, online and offline; and to create qualified electronic signatures and seals

Note 1 to entry Adapted from article 3(42) of [1]

4 Gap Analysis

Item	Article	Topic	Possible standards – for specific requirements
1	3(42) 6a(3)b	"'European Digital Identity Wallet' is a product and service that allows the user to store identity data, credentials and attributes linked to her/his identity, to provide them to relying parties on request and to use them for authentication, online and offline, for a service in accordance with Article 6a; and **to create qualified electronic signatures and seals**"; "European Digital Identity Wallets shall enable the user to: (b) **sign by means of qualified electronic signatures**." This requirement may be achieved in several ways: either (1) the Wallet has the capacity to sign/seal by means of qualified electronic signature/seal – and thus is a QSCD, or (2) relies on an external but local qualified signature/seal creation device with which it interacts locally to create a	**<u>The following standards have been identified</u>** *If the Wallet has the capacity to sign/seal by means of qualified electronic signature/seal:* -CEN/EN 419 212-1 - Application Interface for Secure Elements for Electronic Identification, Authentication and Trusted Services - Part 1: Introduction and common definitions -CEN/EN 419 212-2 - Application Interface for Secure Elements for Electronic Identification, Authentication and Trusted Services - Part 2: Signature and Seal Services *If the Wallet relies on an external but local qualified signature/seal creation device:* *1/For applicative layer*