

eIDAS 2 and the role of identity standards: an outlook of current activities

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1. Regulative and technical framework

2. Overview on projects, standardization and challenges

EUDI Wallet and QEAA ensure the integration of Self-Sovereign Identity in eIDAS Trust- and Technical framework – interaction with existing eID Schemes as well as QTSP require adjustment of existing technical standards



eIDAS 2.0 requires implementing acts for eID Schemes, - Means (EUDIW) and all (qualified) trust services including references to technical standards – means European Standards will become legally mandatory for whole parts of eiDAS 2.0

Decentralization regulated – SSI integrated in eIDAS Trust Model while keeping •**MSG** the advantages of existing solutions



EUDIW is not build on a green field – integration and interaction with existing digital identies and trust services will be the key for success of eIDAS 2.0





Source: goeIDAS e.V. c/o ecsec GmbH

- Notified eID in nearly all member states
- Further eID Means established and widely used
- Adopted by several regulations (AML, Health, Insurance etc.)
- Adoption and interoperability by eIDAS 2.0 needed for wide utilization of EUDIW

- > 250 (Q)TSP in Europe
- All Trust Services provided
- Especially QES/Qseal widely used •
- Adoption and interoperability by eIDAS 2.0 needed for wide utilization of EUDIW

Landscape Remote ID Proofing & Digital Identity



eIDAS - eID scheme

Peer Reviewed

electronic / digital identitie

Pre-notified

Card-based

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Standardization on eIDAS 2.0 will have to define common technical framework on new eID means (EUDIW) and (Qualified) Trust Services in combination with (optimized) trust services





Additonal challenge: dependency of eIDAS 2.0 and NIS2 – QTSP become de **•msg** facto part of critical infrastructure



regulation will have to ensure coherent framework via implementing Act

Agenda



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2. Overview on projects, standardization and challenges

Concrete developments are ongoing in interaction of Regulation, Large Scale Pilots, Toolbox, Reference Implementation and Standardization.

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There`s no precondition on the Verifiable Data Registry/Infrastructure for EUDIW, PID nor qualified attestations of attributes



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Some challenges in standardization and ongoing projects



Gaps and Issues	 Incompatability W3C VC Data Model and SD-JWT Correlation SD-JWT and ETSI Signature Formats to fulfill legal requirements on Qseal without redundancies Concrete issuance PID incl. enrolment Design and requirements on OTCD for Electropic Ledger
	Design and requirements on QTSP for Electronic Ledger
Security und Data Sovereignity	 Data Sovereignity with Non-European Hardware in EUDIW QWAC or not QWAC – is that the question? Secure Element vs. HSM or how to achieve LoA "high" Privacy vs. Burden of Proof or how to ensure privacy friendly revocation etc.?
Interaction and utilization	 Integration eIDAS Nodes and existing QTSP as well as TrustList Organization Identites and Enterprise Wallet Interaction QEAA and Authentic Sources Preservation of QEAA and ledger

eIDAS 2.0 can ensure actual decentralization through legal and technical regulation of DLT (esp. EBSI) – challenges on EBSI

Unalteration and completeness





Overview on relevant international standards

ISO published	 ISO Tc 307 ISO TR 22349 Overview of existing DLT systems for identity management ISO 23257 Reference architecture ISO TS 23635 Guidelines for governance ISO TR 23644 Overview of trust anchors for DLT-based identity management ISO JTC 1 Sc 27 ISO/IEC JTC 1/SC 17 (ISO mDL)
ISO under construction	 ISO CIB TR 24332 Blockchain and DLT in relation to authoritative records, records systems, and records management ISO AWI TS 23353 Auditing guidelines ISO WD TS 23516 Interoperability Framework
Europe (CEN/ETS)	 CEN JTC 19 (Decentralized Identity Management) CEN Tc 224 (Wallet) ETSI ESI (ETSI TS 119 476, QEAA, Wallet Interaction, TrustList, Signatures etc.) ETSI PDL (Ledger)

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