Ethics & Conformance Trust Marked

Update on Public Sector eID Initiatives and Trust Frameworks
Colin Wallis, Executive Director

@KantaraColin

colin@kantarainitiative.org

Kantara on a Page

- International non-profit US founded 2009.
- Estonia non-profit founded 2017 (licensee).
-
- Educational Foundation non-profit US founded 2018. IDESG assets transitioned 2018.
- 'Commons' ethics & societal purpose. No/Low barriers to participation. Passionate about giving back control of identity & personal data. Consent Receipt and User Managed Access specs
- Mission: the global consortium improving trustworthy use of identity & personal data through innovation, standardization & good practice
- Business model: Revenue from Membership, Sponsorship, R&D and Trust Framework Operations program management invested in specification development & publishing platform, and contributions to ISO, OECD Internet Technical Advisory Committee & UNCITRAL
- The only industry consortium to have both identity and personal data scoped within its mission.
- Global thought-leaders; Organizations & Individuals & Government

Our Leadership

experian™

Internet Society™

digi.me

FORGEROCK

Leadership Council

Our Liaisons (examples)

ISO International Organization for Standardization

fido alliance

IDPRO incubated by KANTARA

Open Consent

tScheme Trust Services

DIACC

EEMA

Kantara translates to "wooden bridge" in Kiswahili, a hybrid language between Arabic and Bantu, depicted in Kantara's 'bridge' logo.
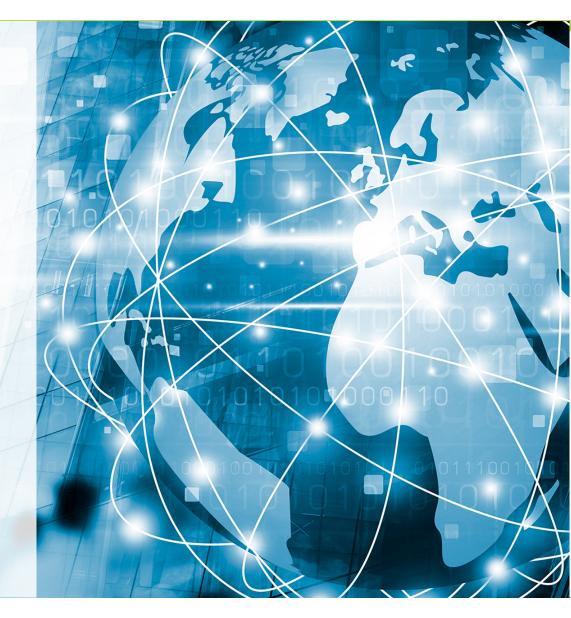
'The Rhythm of Kantara'
'Nurture, Develop, Operate – that's what we do'

- **Nurture** emerging technical communities through our discussion & working groups and our incubators – present and past examples: Identity and Privacy R&D (KIPI) program, incubator for ID Pro.

- **Develop** and standardize community practices with specifications companies can understand, trust and implement.

- **Operate** conformity assessment Trust Framework programs to enable companies to meet their adherence goals to standardized practices needed to support their business.

Award-Winning, Trend-Setting, Compliance-Assisting Innovations

- **Kantara User Managed Access -** the world's first open specification for delegated authorization, extending OAuth 2.0. Strong interest from GDPR, PSD2, Open Banking and other sectors. European Identity Conference award winner 2014. Currently awaiting IETF publication as an international standard

- **Kantara Consent Receipt -** the world's first digital receipt specification for personal data containing the conditions upon which the consent is given – giving agency over personal data to individuals. Annexed in ISO/IEC 29184 Online privacy notices and consent and being recreated as IS/IEC TS 27560 Privacy Technologies – Consent record information structure

- **Kantara Trust Framework -** the world's first to offer 3rd party accredited assessment, approval & grant of trust mark to product & solution service providers for NIST SP 800-63-3. IDESG's IDEF scheme added Aug 2018.

Today's presentation:

This presentation overviews the current status of the most relevant efforts in AU, CA, EU, NZ, UK and US, so that the audience can take away a holistic picture and compare and contrast understanding of government-initiated digital identity programmes globally. Why should you care? Even if you are not directly engaging, monitor public sector developments in all markets you operate in, to prepare for any potential policy, regulation or compliance requirements.

Trusted Digital Identity Framework – standards for identification, authentication, conformity assessment and compliance. Legislation coming. 3 consumer providers: MyGovID, Trust ID (new), GovPass, Digital ID

RealMe Login & RealMe Verified from DIA.govt.nz. 50+ services, mostly SAML 2.0. Applied research restart with

DIGITAL IDENTITY.NZ

Mastercard pilot to roll out with Australia Post and Deakin University

Trust ID Australian payments industry

GreenID Verify - private verification claims checker vs authoritative sources available in A/NZ

The digital identity verification market is projected to reach $12.8 billion by 2024 PYMNTS.com Accessed December 11 2019

kantara INITIATIVE 10 YEARS ANNIVERSARY 2009–2019

Attribution for flag image; Wikipedia accessed 9/22/19

DIACC

The Pan-Canadian Trust Framework ™ (PCTF)

Public facing services
GCKey

·····················

SecureKey Concierge
(new) Verified.Me

Treasury Board of Canada
Secretariat (Government
early profile of the PCTF)

Verifiable
Organisations Network
(OrgBook) British Columbia

kantara
INITIATIVE

LOGIN.GOV
GSA FAS service, mostly SAML2.0. 10M users. 19 agencies integrated. Some question over its claims of conformance - FedRAMP conformance yes, NIST 800-63 less clear…

Federal Government policy (OMB M-19-17) & standards (NIST SP 800 63-3) are default all-market rule sets

ISO/IEC 18013-5 mDL offers hope for future ubiquitous mobile identity (AAMVA/State DMVs

Many agencies operate their own digital ID services or insource identified and authenticated users from 3rd party services

GSA FICAM TFS shutting down, PKI Bridge continues

Attribution for flag image; Wikipedia accessed 9/22/19

© Copyright 2019 Kantara Initiative, Inc.

eIDAS: Purpose: to support a single (digital) market for Europe. eID 9/1/18 AS (trust services) 7/1/16

Service providers & Member States must also comply with GDPR & ePrivacy regs

'eIDAS federation Governed' by the Co-operation Network (reps from States).

Member States leverage population registers & national ID schemes via Implementing Acts (incl. ref to ISO 29115 aka NIST 800-62-2. Mostly SAML 2.0

Recent Certificate Authentication security issue ;-(

BankID in Scandinavia. Some States have national schemes e.g. SISUID in Finland, Mobile ID etc

Attribution for flag image; Wikipedia accessed 9/22/19

Cabinet Office/GDS ambitious market-priming intervention from 2012.

Yoti app 5million installs, selected by Jersey, indicatively by Scotland. Ubisecure, Okta, Onfido, + other IDPs

Gov.UK Verify..
Two IDPs – Digidentity & Post Office (on white label Dutch based Texas owned Digidentity platform) from 3/20. SAML based, 5million accounts, 18 services

DCMS/HMPO re-pilot in 2020 to expose authoritative data/ datasets to private sector (orig. 2009)

Joint GDS/DCMS Identity Unit June 2019, DCMS CfE August 2019, collaboration with techUK to start again (arguably repeating some mistakes)

Attribution for flag image; Wikipedia accessed 9/22/19

Portugal - Chave Móvel Digital	The Portuguese Republic	Chave Móvel Digital	Digital Mobile Key	High	PEER REVIEWED	📅 10 Oct 2018	
Belgium - Itsme	The Kingdom of Belgium	Belgian eID Scheme FAS / Itsme®	itsme® mobile App		PRE - NOTIFIED	📅 18 Apr 2019	
Portugal - Cartão de Cidadão	The Portuguese Republic	Cartão de Cidadão	Portuguese national identity card (eID card)	High	NOTIFIED	📅 28 Feb 2019	2019/C 75/04
Czech Republic	Czech Republic	National identification scheme of the Czech Republic	CZ eID card	High	NOTIFIED	📅 13 Sep 2019	2019/C 309/09
Germany	Federal Republic of Germany	German eID based on Extended Access Control	National Identity Card Electronic Residence Permit	High	NOTIFIED	📅 26 Sep 2017	2017/C 319/03
Estonia	Republic of Estonia	Estonian eID scheme: ID card Estonian eID scheme: RP card Estonian eID scheme: Digi-ID Estonian eID scheme: e-Residency Digi-ID Estonian eID scheme: Mobiil-ID Estonian eID scheme: diplomatic identity card	— ID card — RP card — Digi-ID — e-Residency Digi-ID — Mobiil-ID — Diplomatic identity card	High	NOTIFIED	📅 07 Nov 2018	2018/C 401/08
The Netherlands	The Kingdom of the Netherlands	Trust Framework for Electronic Identification (Afsprakenstelsel Elektronische Toegangsdiensten)	Means issued under eHerkenning (for businesses)	Substantial, High	NOTIFIED	📅 13 Sep 2019	2019/C 309/09
Italy - eID	Republic of Italy	Italian eID based on National ID card (CIE)	Italian eID card (Carta di Identità elettronica)	High	NOTIFIED	📅 13 Sep 2019	2019/C 309/09

https://ec.europa.eu/cefdigital/wiki/display/EIDCOMMUNITY/Overview+of+pre-notified+and+notified+eID+schemes+under+eIDAS

Latvia	Latvia	Latvian eID scheme (eID)	eID karte eParaksts karte eParaksts karte+ eParaksts		PRE-NOTIFIED	📅 04 Feb 2019	
Portugal - Sistema de Certificação de Atributos Profissionais	The Portuguese Republic	Sistema de Certificação de Atributos Profissionais	Professional Attributes Certification System		PRE-NOTIFIED	📅 30 May 2018	
Spain	The Kingdom of Spain	Documento Nacional de Identidad electrónico (DNIe)	Spanish ID card (DNIe)	High	NOTIFIED	📅 07 Nov 2018	2018/C 401/08
Denmark	Kingdom of Denmark	NemID	Key card (OTP) Mobile app Key token (OTP) NemID hardware Interactive Voice/Response (OTP) Magna key card (OTP)		PRE-NOTIFIED	📅 16 Aug 2019	
Croatia	Republic of Croatia	National Identification and Authentication System (NIAS)	Personal Identity Card (eOI)	High	NOTIFIED	📅 07 Nov 2018	2018/C 401/08
Belgium - eID	The Kingdom of Belgium	Belgian eID Scheme FAS / eCards	Belgian Citizen eCard Foreigner eCard	High	NOTIFIED	📅 27 Dec 2018	2018/C 464/08

The United Kingdom	The United Kingdom of Great Britain and Northern Ireland	GOV.UK Verify	GOV.UK Verify eID means provided by: • Barclays • Experian • Post Office • SecureIdentity • Digidentity	Low, Substantial	NOTIFIED	02 May 2019	2019/C 150/06
Luxembourg	The Grand Duchy of Luxembourg	Luxembourg national identity card (eID card)	Luxembourg eID card	High	NOTIFIED	07 Nov 2018	2018/C 401/08
Italy - SPID	Republic of Italy	SPID – Public System of Digital Identity	SPID eID means provided by: • Aruba PEC SpA • Namirial SpA • InfoCert SpA • In.Te.S.A. SpA • Poste Italiane SpA • Register.it SpA • Sielte SpA • Telecom Italia Trust Technologies S.r.l.	Low, Substantial, High	NOTIFIED	10 Sep 2018	2018/C 318/02 corrected by 2018/C 344/09
Slovakia - eID Scheme	Slovak Republic	National identity scheme of the Slovak Republic	Slovak Citizen eCard Foreigner eCard		PRE-NOTIFIED	18 Apr 2019	

https://ec.europa.eu/cefdigital/wiki/display/EIDCOMMUNITY/Overview+of+pre-notified+and+notified+eID+schemes+under+eIDAS

Summary & Conclusions (generalisations!)

'2 steps forward, one step back'

Generally not federate-able - not interoperable nor comparable in terms of assurance level to mitigate risks

General tendency for intervention beyond policy and into ecosystem development and architecture

Siloed and somewhat disconnected from other policy interventions within the jurisdiction as well as outside of it

Oscillation between 'Virtuous intentions' and 'Vicious realities'

Why should you care? Even if you are not directly engaging, monitor public sector developments in all markets you operate in, to prepare for any potential policy, regulation or compliance requirements.

International community policy & standards developments to engage in or monitor

- ISO SC27 - Information security, cybersecurity and privacy protection – esp.working group 5
- OECD – SPDE (**S**ecurity and **P**rivacy in the **D**igital **E**conomy) working party
- UNCITRAL – Working Group IV Electronic Commerce
- (Government-only meetings annually as International Identity Summit or D9)

....

- IEEE 7000 series – e.g. 7012 Machine Readable Personal Privacy terms, 7006 Personal data AI agent
- IETF – OAuth xyz tx, RAR, PAR (OAuth 3.0)
- W3C – Verifiable Claims, Decentralized Identifiers

....

- FIDO Alliance – FIDO 2.0 profiles (CTAP & W3C Verifiable Claims)
- Kantara Initiative – Consent Receipt, User Managed Access (OAuth 2.0 extension) specs
- Linux Foundation – Hyperledger Indy & Aries – decentralized-related projects
- Open ID Foundation – OpenID Connect profiles (e.g. FAPI) & self-test for conformance/interop

Ethics & Conformance Trust Marked

Nurture. Develop. Operate. – that's what we do!

colin@kantarainitiative.eu
Twitter: @KantaraColin @KantaraNews
Join us at https://kantarainitiative.org/membership/
Newsletter sign-up: website header and footer