



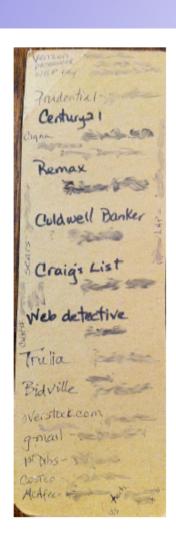
The Bridge to Assurance Communities, Governance and Technical Interoperability: **A Global Context**

Joni Brennan (Joni@kantarainitiative.org)





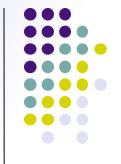




- Inefficient
- Does not scale
- Poor high risk solution



Agenda:



- Overview of Kantara Initiative
- Identity Assurance Framework
- Accreditation / Certification
- Next Steps



27 June 2011





Supporting Privacy:

Developing solutions for secure, identity-based, privacyrespecting online interactions.

Building Trust:

Ensuring trusted network environments are available to support generative growth within the Internet.

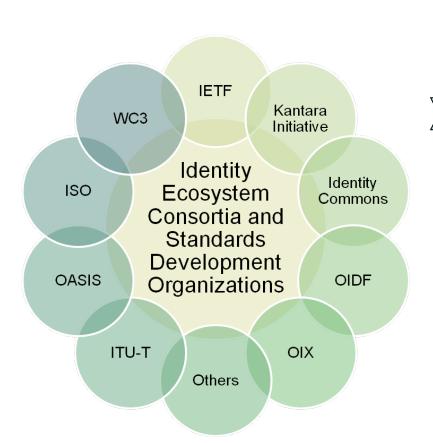
Open Community:

Bridging various technologies and harmonizing effective solutions related to online identity.



Technical Community Stakeholders





Building Bridges

Focus on the **harmonization** of existing and evolving solutions.

Supporting **multiple solutions** that fit a variety of requirements and jurisdictions.



Trustees











Members















































































































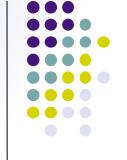












Kantara Initiative: Liaisons

- ISO: 29115, 29100, 29191, ect
- ITU-T: X.EAA, OITF
- OASIS: eGovernment, SAML SSTC, etc.
- Governments: Performing confidential and nonconfidential program reviews upon request for specific international governments and government agencies.

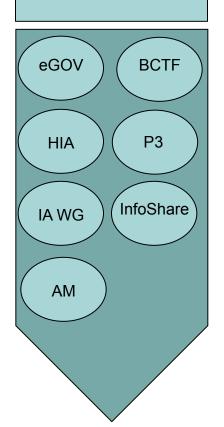




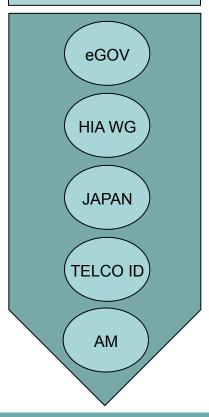
Kantara Initiative: Overview

KANTARA INITIATIVE WORK GROUPS

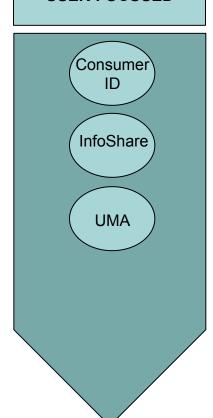
POLICY



JURISDICTION



USER-FOCUSED



WORK & DISCUSSION GROUP ACRONYMS:

- (AM) Attribute Management
- (BCTF) Business Cases for Trusted Federations
- (Consumer ID) Consumer Identity
- (eGOV) eGovernment
- (FI) Federation Interoperability
- (HIA) Heath Identity Assurance
- (IA) Identity Assurance
- (Info Sharing WG) Information Sharing
- (Japan) Japan
- (P3) Privacy and Public Policy
- (Telco ID) Telecommunication Identification
- (UMA) User Managed Access





Kantara Initiative: Overview

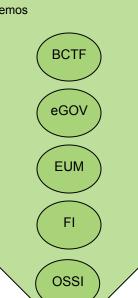
KANTARA INITIATIVE PROGRAMS

CERTIFICATION

INTEROPERABILITY

Interop Review Board (IRB)

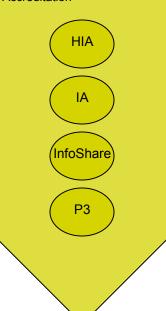
- Certification
- Demos



ASSURANCE

Assurance Review Board (ARB)

- Certification
- Accreditation



NON-**CERTIFICATION**

HARMONIZATION

User-Centric, Jurisdiction and Vertical Based



Telco ID

UMA

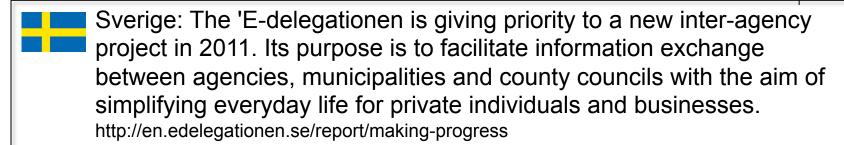
OSSI

WORK & DISCUSSION GROUP ACRONYMS:

- (BCTF) Business Cases for Trusted Federation
- (eGOV) eGovernment
- (FI) Federation Interoperability
- (IOP) Interoperability
- (HIA) Heath Identity Assurance
- (IA) Identity Assurance
- (Info Sharing) Information Sharing
- (OSSI) Open Source Strategic Initiative
- (P3) Privacy and Public Policy
- (Consumer ID) Consumer Identity
- (Japan) Japan
- (Telco ID) Telecommunication Identification
- (UMA) User Managed Access



Interest to Governments



Canada: The Canadian Federal Government recently announced plans to create a single IT department 'Shared Services' that will save \$100-200m a year through consolidation-driven efficiencies. http://cloudbestpractices.net/2011/08/08/canadian-community-cloud/

United States: The Open Identity Initiative seeks to leverage existing industry credentials for Federal use. The Initiative approves credentials for government use through our Trust Framework Providers who assess industry Identity Providers (IDPs). http://www.idmanagement.gov/pages.cfm/page/IDManagement-open-identity-solutions-for-open-government



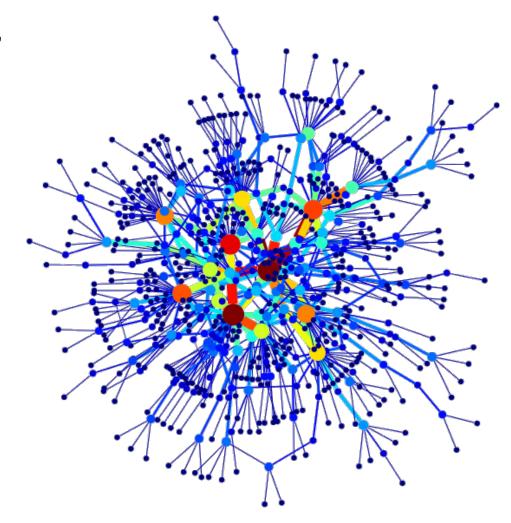


- EduGain
 http://www.geant.net/service/edugain/FAQs/Pages/FAQs.aspx
- InCommon http://www.incommon.org/about.html
- Kalmar2
 http://www.kalmar2.org/kalmar2web/front_page.html
- SWAMID http://www.swamid.se/11/faq.html





"Inter-Federation"



Value Proposition



- Increased security
- Compliance with laws, regulations, and standards
- Improved interoperability
- Enhanced customer service
- Elimination of redundancy
- Increase in protection of Personally Identifiable Information (PII)

Source: http://www.idmanagement.gov/pages.cfm/page/IDManagement-library





Levels of Assurance: Illustrated

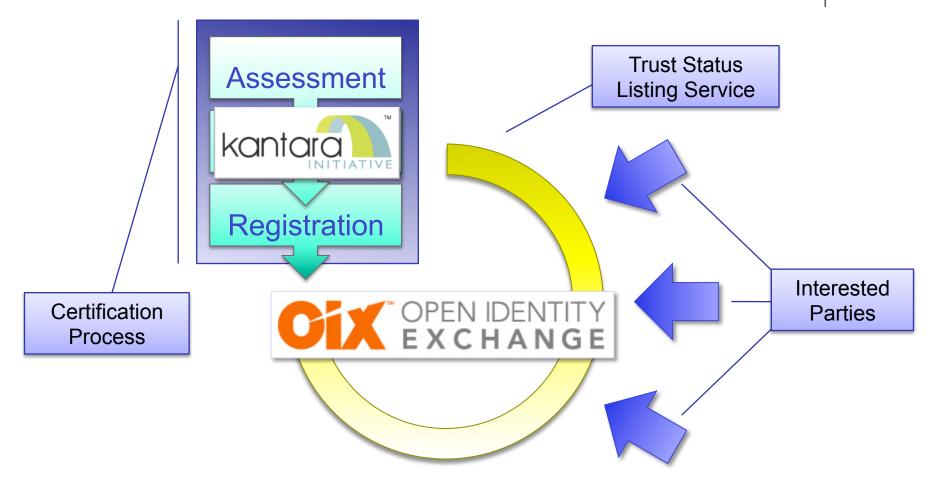
Assurance Level	Example	Assessment Criteria – Organization	Assessment Criteria – Identity Proofing	Assessment Criteria – Credential Mgmt
AL 1	Registration to a news website	Minimal Organizational criteria	Minimal criteria - Self assertion	PIN and Password
AL 2	Change of address of record by beneficiary	Moderate organizational criteria	Moderate criteria - Attestation of Govt. ID	Single factor; Prove control of token through authentication protocol
AL 3	Access to an online brokerage account	Stringent organizational criteria	Stringent criteria – stronger attestation and verification of records	Multi-factor auth; Cryptographic protocol; "soft", "hard", or "OTP" tokens
AL 4	Dispensation of a controlled drug or \$1mm bank wire	Stringent organizational criteria	More stringent criteria – stronger attestation and verification	Multi-factor auth w/hard tokens only; crypto protocol w/keys bound to auth process

Note: Assurance level criteria as posited by the OMB M-04-04 & NIST SP 800-63









Identity Assurance Framework: Actors



KANTARA INITIATIVE IAF

ASSESSORS

Get accredited by Kantara as an assessor against the IAF 1600 AQR

Leverage demonstrable competencies to expedite certification

CREDENTIAL SERVICE PROVIDERS

Get assessed by a Kantara Accredited Assessor for IAF certification against the IAF 1400 SACs

Submit certification application to Kantara's Assurance Review Board (ARB)

Obtain and maintain compliance and certification

FEDERATION OPERATORS

Define criteria for identity assurance for their federation

Map policy against IAF SAC and IAF profiles

Accept or recommend IAF certification to its constituents

APPROVED APRIL 2010

http://kantarainitiative.org/confluence/x/e4R7Ag

IDENTITY ASSURANCE FRAMEWORK 2.0 MAP

NON-NORMATIVE:

- (IAF 1000) Overview
- (IAF 1100) Glossary
- (IAF 1200) Assurance Levels

NORMATIVE:

- (IAF 1300) Assurance Assessment Scheme
- (IAF 1400) Service Assessment Criteria
- (IAF 1600) Assessor Qualifications & Requirements





IAF Documents

Note: a Trust Framework may apply specific profiles pertaining to Technology and Privacy Constraints used to achieve Levels of Assurance

IAF 1000 - Overview

Provides an overview of of the IAF documents and structure

IAF 1100 - Glossary

Provides a glossary of terms used in the IAF documents

IAF 1200 - Levels of Assurance

Provides an overview in detail of the Levels of Assurance

IAF 1300 – Assurance Assessment Scheme

Provides the process of how the Assurance Program operates

IAF 1400 - Service Assessment Scheme

Lists the Criteria that a Service will need to provide compliance to for Service Approval at the different Levels of Assurance

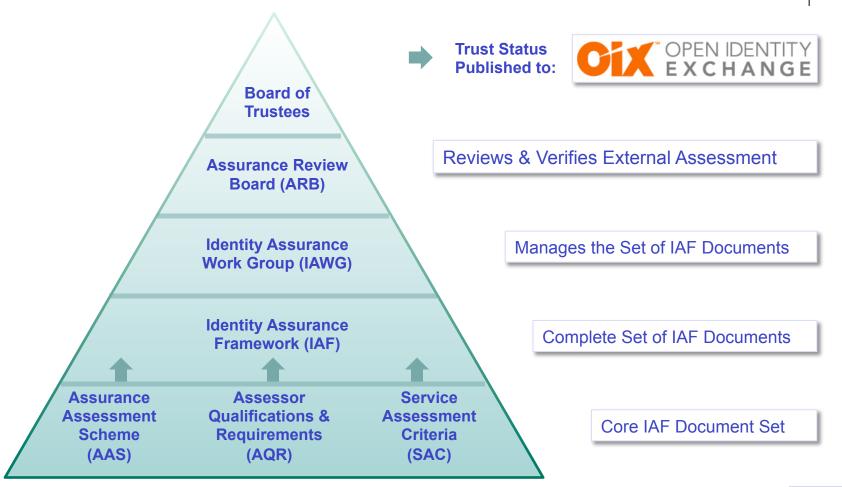
IAF 1600 – Assessor Qualifications and Requirements

Provides the qualifications that an Assessor must prove to become Accredited to perform IAF assessments



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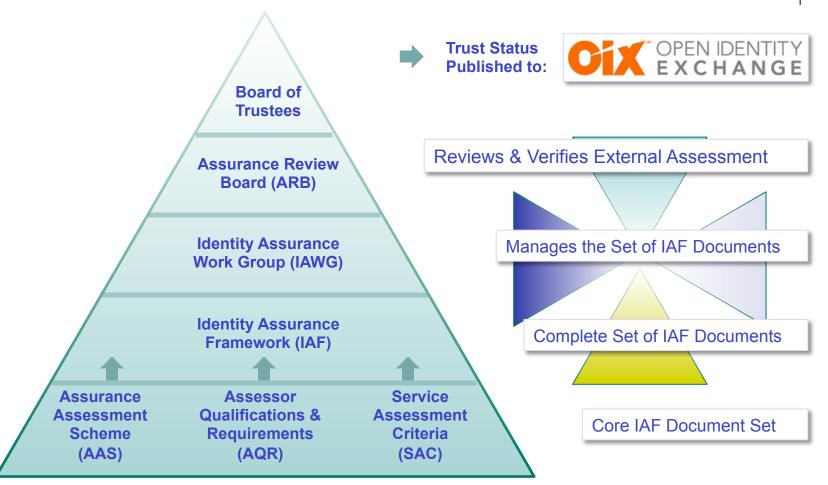
Kantara Trust Framework





Kantara Trust Framework



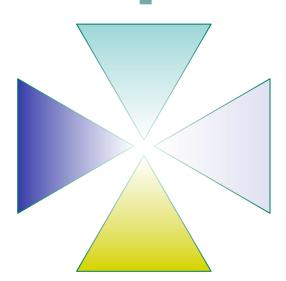






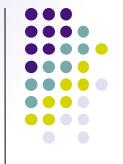
- Technical
 - SAML
 - OpenID
 - OAuth
- Verticals
 - Social Networks
 - Healthcare
 - Banking
- Jurisdictions
 - National Governments
 - Local Governments











Kantara Accredited to LoA 1-4

Deloitte.



Kantara Approved to LoA 3 non-crpyto

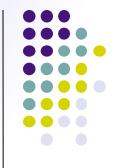


Verizon Universal Identity Service (VUIS)*

* Indicates ICAM Trust Framework Approval



Trust Framework Profiles



Common, Well-Vetted Foundation

Complete Assessment Criteria

Core Framework

Technical Profile

Privacy Profile Final Framework

Specific Technical Deployment Rules

Specific Policy / Regulation Rules







Open Identity

Exchange

Kantara Initiative

Accredits Assessors and Certifies IdPs against Identity Assurance Framework Policy

US Federal ICAM LoA 1,2,3

> Open Identity Exchange Global Federation Utility for multiple trust frameworks

"Open Market Model"

Technology-agnostic, internet utility for identity federation meta-data

Technology Platform for:

- · global certification listings
- · trans-federation operational meta-data
- · automated attribute exchanges

Developing legal structures for Levels of Assurance

Development of the OIX Trust Wiki "model" term sheets/contracts for Trust Framework actors and services

Adopting FIWG technical tools for automated certification listings

Identity Assurance WG [IAWG]
manages IAF and enables
IAF Profile development;
develops Federal Operator Guidelines

Federation Interoperability WG [FIWG] develops technical tools enabling federations to communicate certification meta-data

Privacy and Public Policy WG [P3WG] supports development of Levels of Protection

Kantara Initiative Work Groups

Groups



Building on the Core



Privacy Assurance:

Building upon the Kantara US Federal Privacy Profile the Privacy and Public Policy (P3) WG will build Privacy Assessment Criteria (PAC) for audit controls applied in a Privacy Assessment.

Attribute Management Assurance:

Recently formed AM group is in process of discovery and gap analysis for next steps to Attribute Management

Relying Party Guidelines:

Identity Assurance WG focusing in on areas of Relying Party concern and engagement.







- Status:
 - Operational SAML Framework
 - Operational Organization
 - Approved for US Government Use through LOA 3
 - Referenced by eGov communities including Canada, New Zealand, Sweden
 - Assessments in progress
 - International Partners
- Lessons Learned So Far:
 - Need Additional Members, Participants, and Customers
 - Need Additional Technical Frameworks
 - Need Additional Levels of Assurance
 - Need Additional Privacy Profiles



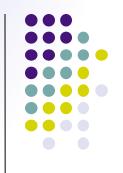




- Kantara Initiative Website:
 - http://kantarainitiative.org
- Community Mail List:
 - http://kantarainitiative.org/listinfo/community
- Assurance Certification Center:
 - http://kantarainitiative.org/confluence/x/EYCYAQ
- Membership Documents:
 - http://kantarainitiative.org/wordpress/membership/



Thanks!





Questions?

•Kantara Executive Director: Joni Brennan (joni@kantarainitiative.org)