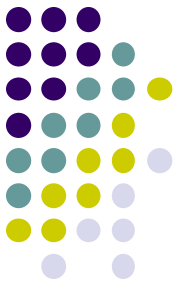


The Role of Identity Assurance Frameworks within in Federated IAM Systems

IAM Summit
BrightTALK.com

Joni Brennan, Program Director, Kantara Initiative



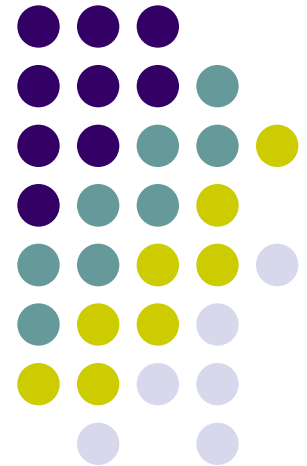


Presentation Agenda

- Overview
- Approach to Federated Identity
- Identity Assurance Certification Program
- US Government
- Getting Involved

Kantara Initiative Overview

Open and Agile...



Kantara Initiative is Born (mid-2009)



Kantara (kan-TAR-a): Swahili for "bridge";
Arabic roots in "harmony"

Primary focus to foster:

- industry coordination
- interoperability
- innovation
- broad adoption



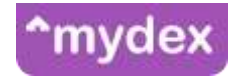
...through the development of:

- technical specifications
- operational frameworks
- deployment best practices
- compliance programs

Trustees



Members



Kantara Initiative enables Harmonization



Bridging and harmonizing the identity community with actions that will help ensure secure, identity-based, online interactions while preventing misuse of personal information so that networks will become privacy protecting and more natively trustworthy environments.

It is our mission and goal to work openly with the Identity community to develop and harmonize real value solutions to solve issues facing Identity Access Management today...

Kantara Initiative Overview



- Is an organization for everyone:
 - Membership is optional - Any one may sign up to become a Participant for free
 - Full Memberships are fee scale based and have additional benefits
 - Hosts 19 Groups in the area of identity management.
- Groups
<http://kantarainitiative.org/wordpress/groups/>
- Community Mail List
<http://kantarainitiative.org/mailman/listinfo/community>
- Membership Documents
<http://kantarainitiative.org/wordpress/membership/>

Kantara Initiative Work Groups



Identity Assurance (IAWG)

<http://kantarainitiative.org/confluence/display/idassurance/>

eGovernment (eGovWG)

<http://kantarainitiative.org/confluence/display/eGov/>

Privacy and Public Policy (P3WG)

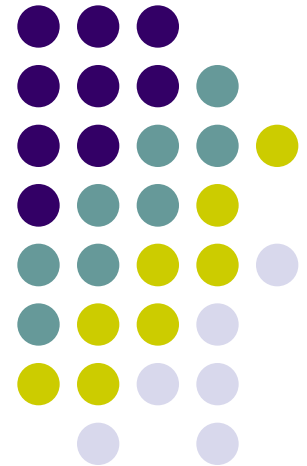
<http://kantarainitiative.org/confluence/display/p3wg/>

Health Identity Assurance (HIAWG)

<http://kantarainitiative.org/confluence/display/healthidassurance/>

The Kantara Initiative Identity Assurance Framework Approach

Specified, Generic and Scalable...



Kantara Initiative Recommendation

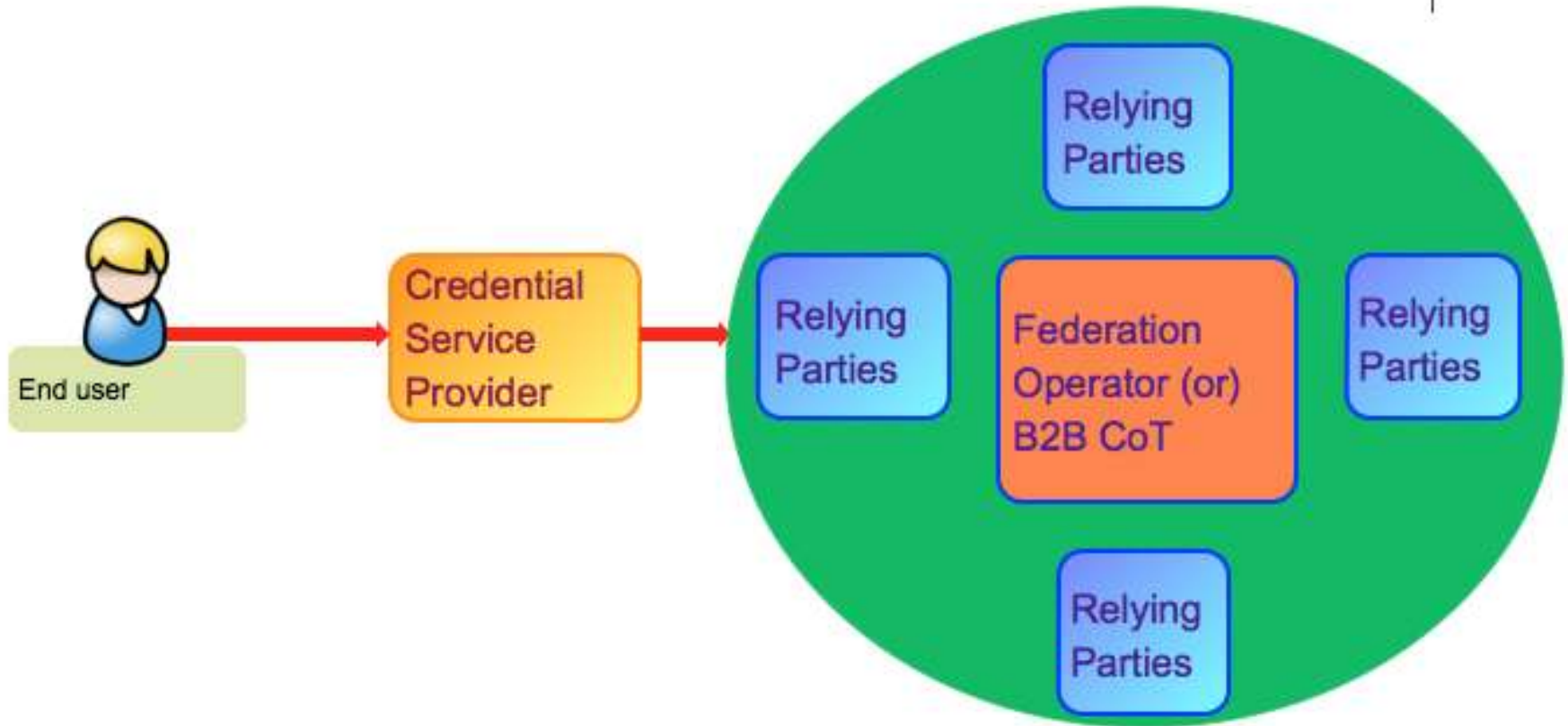
Identity Assurance Framework 2.0



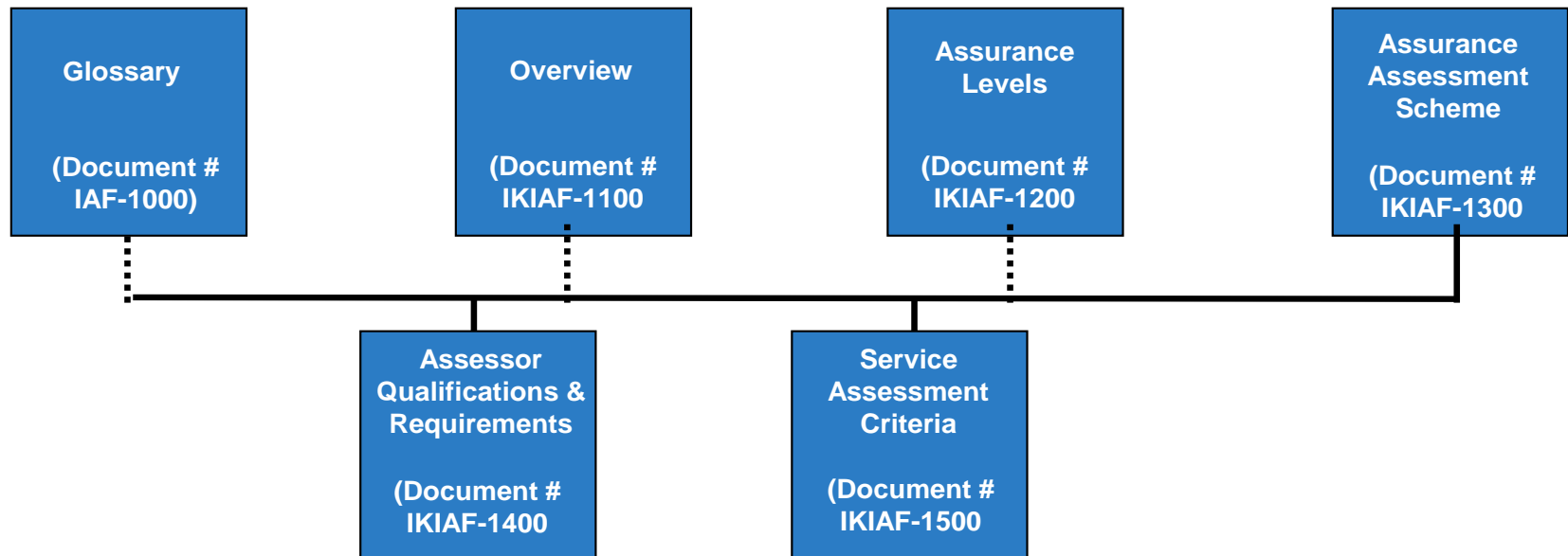
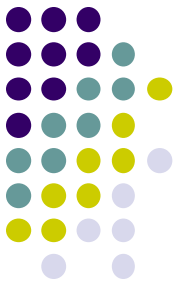
Approved April 2010

- <http://kantarainitiative.org/confluence/display/GI/Identity+Assurance+Framework+v2.0>

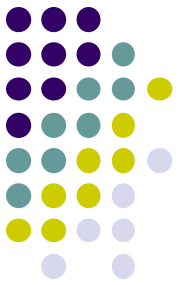
Identity Ecosystem: All About Trust



Identity Assurance Framework Components



Profiles



- Particular implementation of the IAF may require ancillary specifications.
 - Jurisdictional (governments)
 - HealthCare
 - Financial
 - Telecommunications

IAF Assurance Levels 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

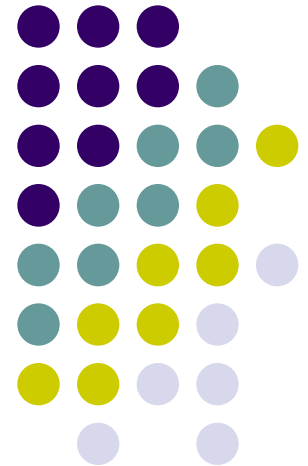
Identity Assurance Framework Adoption Benefits



- It is technology Agnostic
- Assessment addresses both technology and process and procedure requirements regards the CSP
- Helps enable federation through trusted credentials
- Community Support

Kantara Initiative's Identity Assurance Certification Program

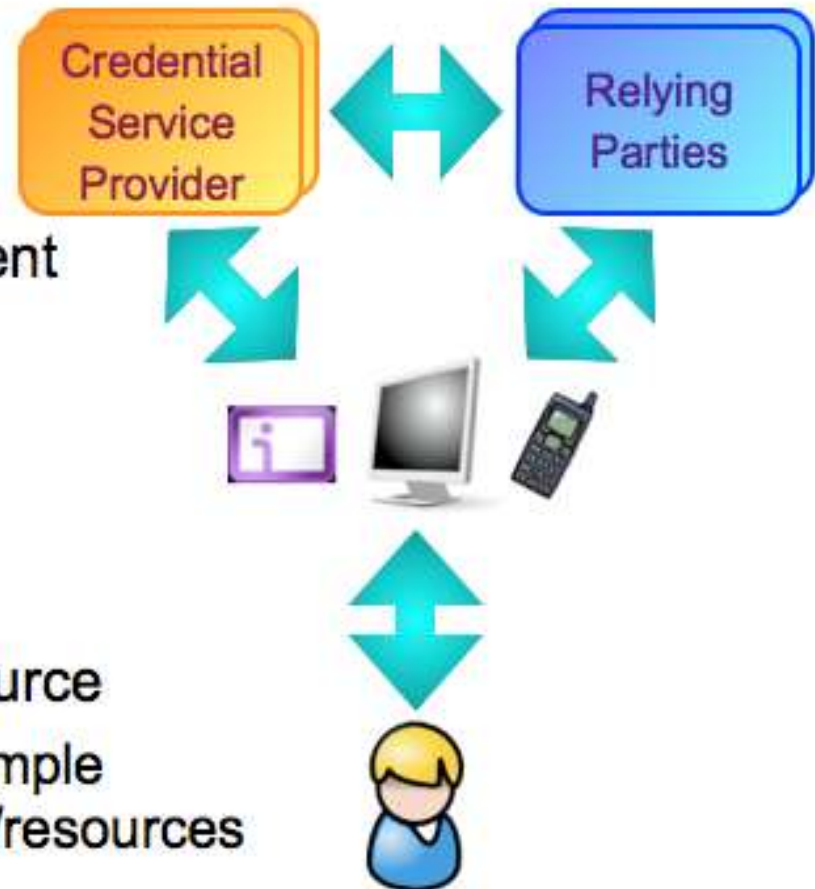
It's all about trust...





Federated Identity requires Technical & Policy Interoperability

- Credential Service Provider (CSP)
 - Identity Proofing
 - Credential Lifecycle Management
 - Operational Criteria for Trust
- Relying Party (RP)
 - Assesses Risk of Application
 - Complies with Best Practices
 - Provisions the Service or Resource
- User gets great experience: safe, simple access from any device to services/resources



Interoperability & Assurance:



- **Technical Interoperability**
 - Does the system that authenticates me (vouches for me) “talk” to the systems that protect the resources I want to access?
- **Operational Interoperability via: Standard Assurance Levels**
 - Do the CSP and RP management entities “trust” each others' systems, operating procedures, vetting practices, audit reports, etc.?

How to achieve operational interoperability at Internet scale



IdenTrust
IDENTITY ASSURED

SAFE-BioPharma
SAFE-BioPharma Association
Signatures and Authorization for Everyone



ACES
Access Certificates for Electronic Services

ECA
External Certificate Authority

Authentication
SECURE GOVERNMENT ACCESS ONLINE

CertiPath

InCommon



iDA
SINGAPORE

**ICP
Brasil**
O Brasil na era da certificação digital



M Real Casa de la Moneda
Fábrica Nacional de Moneda y Timbre
CERES

Bundesministerium für Wirtschaft und Technologie

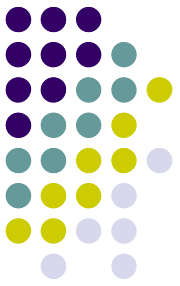
How to achieve operational interoperability at Internet scale



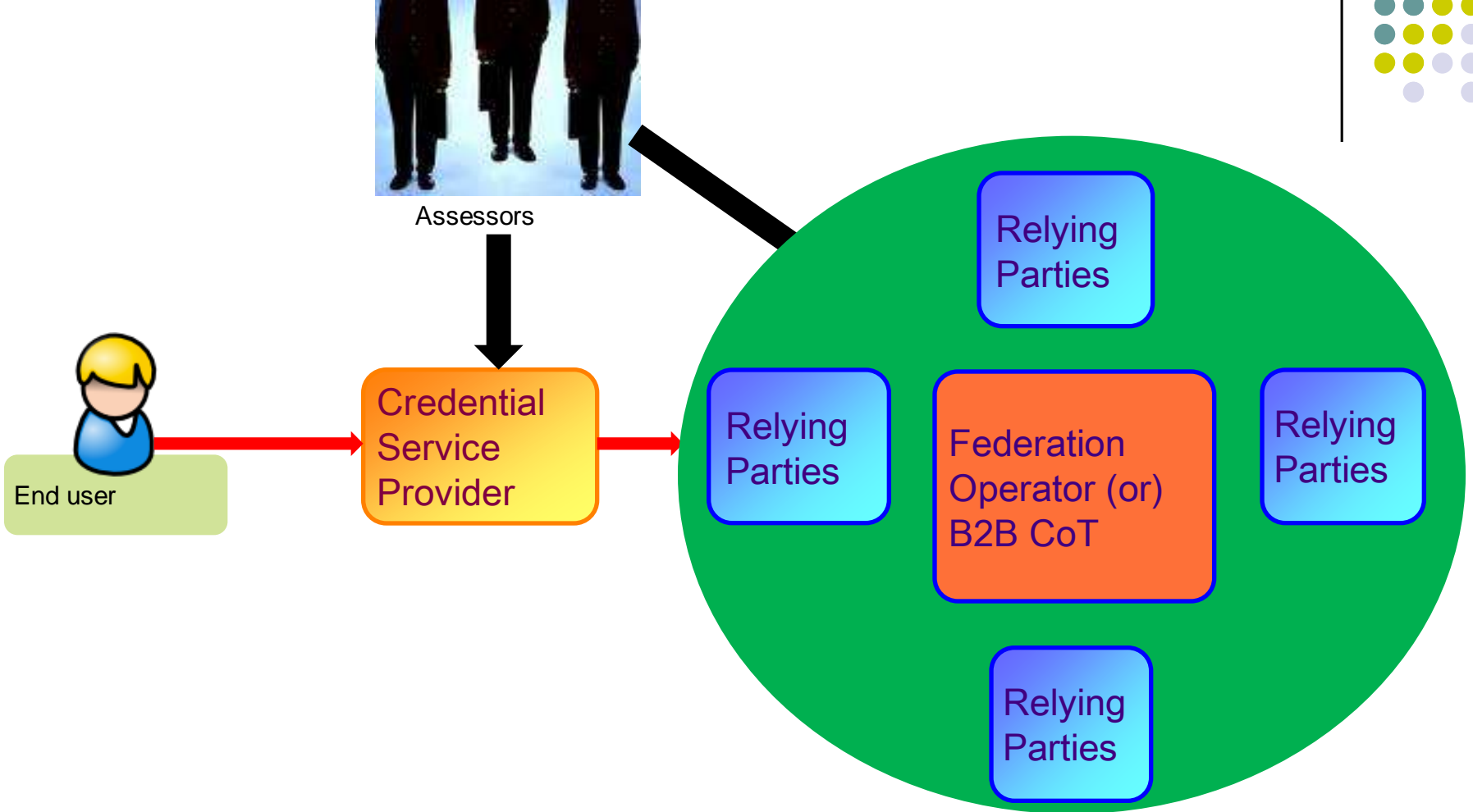
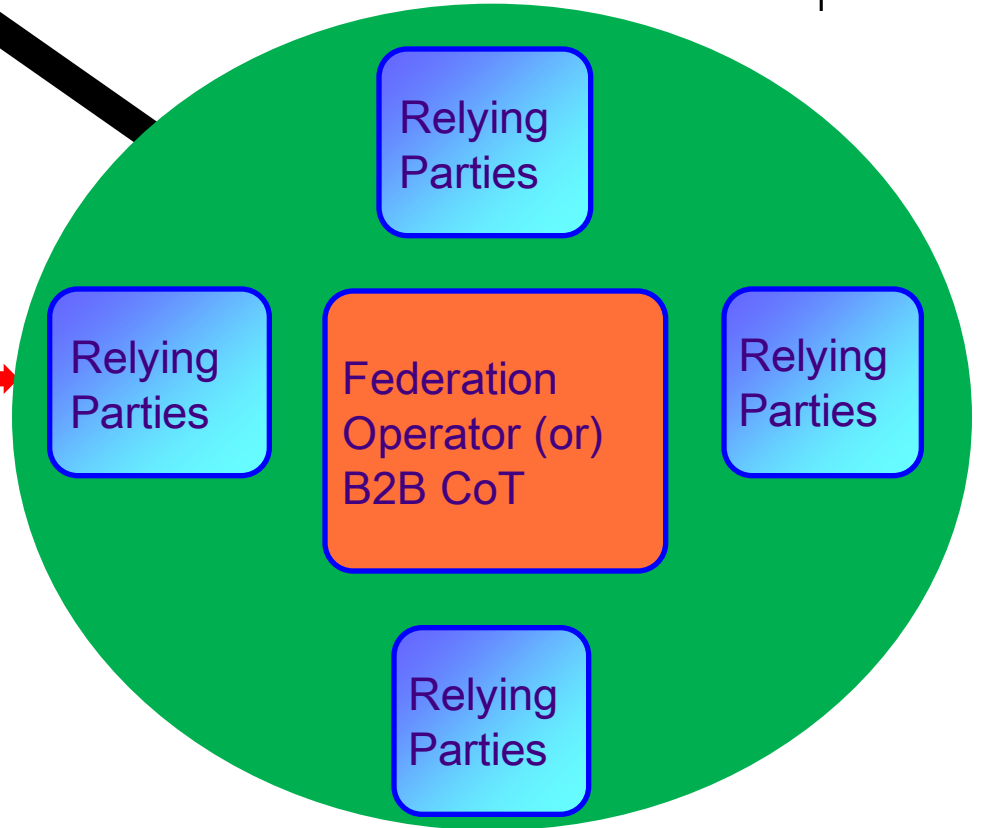
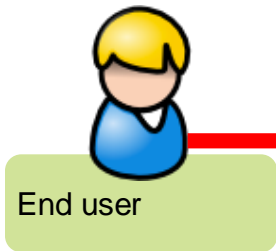

Identity Assurance Framework



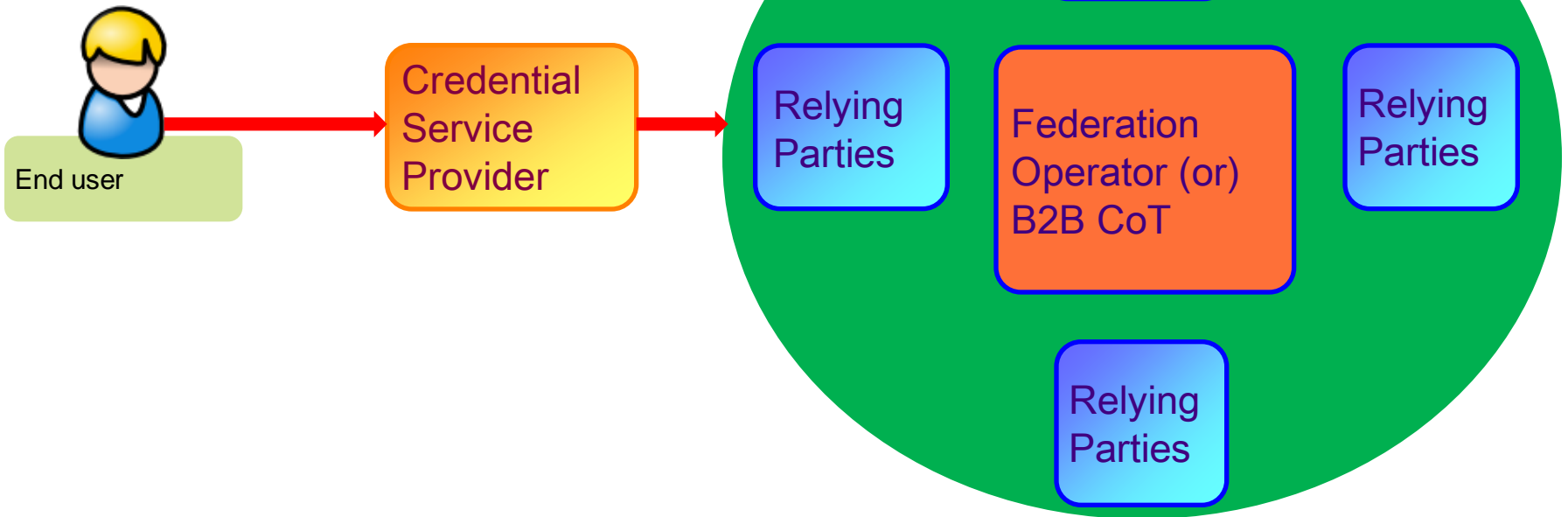
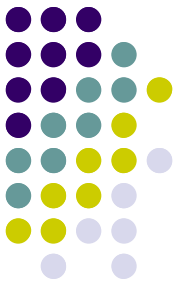
Identity Ecosystem: Assessing Trust



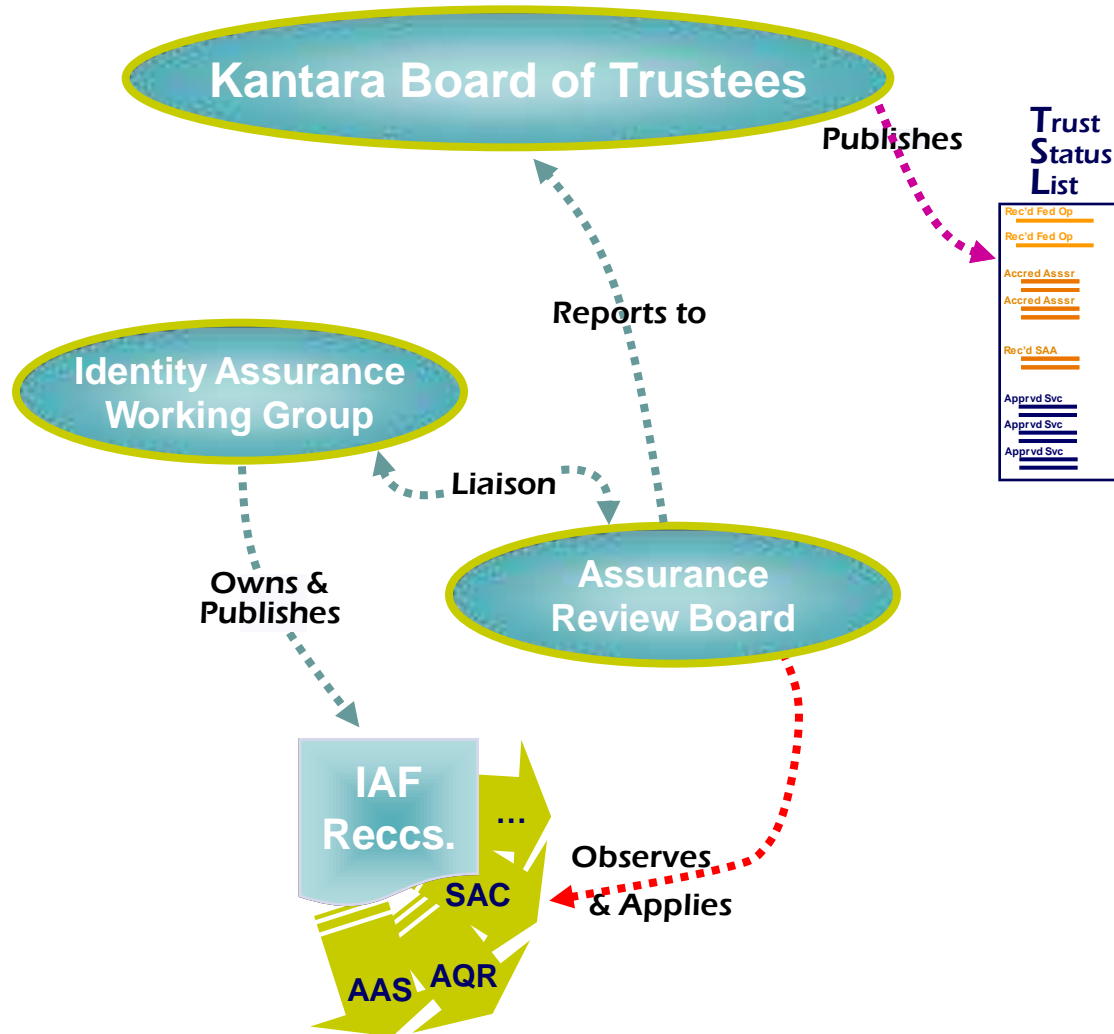
Assessors

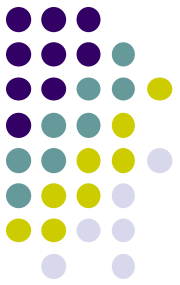


Identity Ecosystem: Certifying Trust



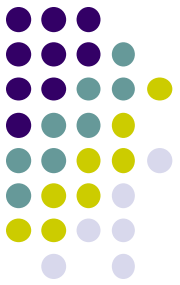
IAF Kantara Initiative Governance





Certification Process

- Who should apply and how?
- Kantara Initiative
 - Accredits Assessors / Auditors
 - Certifies Credential Service Providers through Kantara Accredited Assessors



More Information

- Accepting applications now!
- Visit our Assurance Certification Center:
 - http://bit.ly/assurance_certification
- Connect with me:
 - joni@ieee-isto.org

The US Government Approach to Federated Identity



United States Government: Open Identity Solutions for Open Government (from GSA)



- 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).
- The Trust Framework Provider Adoption Process outlines the process that the ICAM community uses to sanctify organizations that assess commercial identity providers.

US Trust Framework Program idmanagement.gov



Trust Framework Providers:

- [Open Identity Exchange](#) - Provisional Approval
- [Kantara Initiative](#) - Provisional Approval
- InCommon Federation - Draft submission under review

The [Scheme Adoption Process](#) outlines the process that the ICAM community uses to develop and/or approve specification profiles for achieving portable identity over the Internet.

Adopted Schemes:

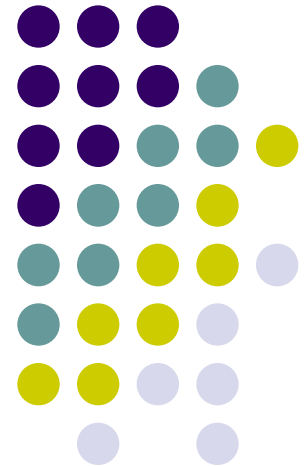
- [ICAM OpenID 2.0 Profile](#) - Fully adopted
- [Kantara SAML 2.0 eGovernment Profile](#) - Fully adopted
- [ICAM IMI 1.0 Profile](#) - Fully adopted
- ICAM WS-Federation - In development

Identity Providers:

- Google - OpenID Foundation, Pilot assessment with NIH in progress
- Yahoo - OpenID Foundation, Pilot assessment in progress
- PayPal - OpenID Foundation, InfoCard Foundation, Pilot assessment in progress
- Equifax - InfoCard Foundation
- VeriSign - OpenID Foundation
- Wave

Getting Involved

Join our community...



Getting Involved

Join our community...

Website

<http://kantarainitiative.org>

Community Mail List

<http://kantarainitiative.org/mailman/listinfo/community>

Identity Assurance Accreditation and Certification Program

http://bit.ly/assurance_certification

Membership Documents

<http://kantarainitiative.org/wordpress/membership/>

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