



Federal CIO Council Information Security and Identity Management Committee

Identity, Credential, and Access Management

FICAM Ecosystem June 9, 2011 Chris Louden



Agenda

- Standard Disclaimer
- Background / Scope
 - Goals / Drivers
 - Policy Foundation
- > Trust Frameworks
- > Structure



Goals / Drivers

- Principle focus on Government to Citizen
- Support E-Government traction
 - Electronic methods are cheaper, easier
 - Authentication often necessary
- Avoid credentialing of citizens
 - Costly, cumbersome to manage
 - "One more password" for citizens
- Accept identity asserted from trusted commercial providers

Government instance of NSTIC Vision...



Policy Foundation: OMB M04-04

Risk/Impact Profiles	Assurance Level Impact Profiles			
Potential Impact Categories for Authentication Errors	1	2	3	4
Inconvenience, distress or damage to standing or reputation	Low	Mod	Mod	High
Financial loss or agency liability	Low	Mod	Mod	High
Harm to agency programs or public interests	N/A	Low	Mod	High
Unauthorized release of sensitive information	N/A	Low	Mod	High
Personal Safety	N/A	N/A	Low	Mod High
Civil or criminal violations	N/A	Low	Mod	High



Policy Foundation: NIST Special Pub 800-63

> SP 800-63 Technical Guidance

Assurance Level

Allowed Token Types	1	2	3	4
Hard crypto token	√	√	√	√
One-time Password Device	√	√	√	
Soft crypto token	√	√	√	
Password & PINs	√	√		



Non-PKI Approach: Scheme Adoption

- Scheme Adoption
 - Scheme specific type of authentication token and associated protocols (e.g. user ID & password; PKI; SAML assertion)
 - Scheme Adoption produces a Federal Profile
 - Profile defines MUSTs, SHOULDs, SHOULD NOTs, etc. for Identity Providers (IdPs) & Relying Parties (RPs)
 - Goal is not to change the existing technical standard
 - Profiles complete for OpenID, Information Card (IMI), and SAML. OAuth2 in Progress
- Federal ICAM Identity Scheme Adoption Process and scheme profiles posted on http://www.IDmanagement.gov



Non-PKI Approach: Trust Framework Adoption

- Trust Framework Adoption
 - Adoption of Industry Trust Frameworks
 - Adopts at Assurance Levels
 - Considers requirements of NIST SP 800-63
 - Trust Framework Evaluation Team (TFET) reviews applications
- Privacy Principles included
 - Opt in
 - Minimalism
 - Activity Tracking

- Adequate Notice
- Non Compulsory
- Termination
- Federal ICAM Trust Framework Provider Adoption Process posted on http://www.IDmanagement.gov



Non-PKI Approach: Trust Framework Adoption

- Provisionally* Adopted Trust Framework Providers (TFP)
 - Open Identity Exchange (OIX) (http://openidentityexchange.org/)
 - Kantarra Initiative (http://kantarainitiative.org/)
 - InCommon (http://www.incommonfederation.org/)
- > TFP's are key
 - Public / Private partnership
 - Scalability

*Provisional until finalization of the Privacy Guidance for Trust Framework Assessors and Auditors



Non-PKI Approach: Trust Framework Adoption

Approved Identity Providers

IDP	LOA	Scheme	TFP
Google	1	OpenID	OIX
Equifax	1	IMI, OpenID	OIX
Paypal	1	IMI, OpenID	OIX
Verisign	1	OpenID	OIX
Wave	1	OpenID	OIX

Higher assurance levels?



Structure

- Identity Credentialing and Access Sub Committee (ICAMSC)
 - Federal CIO Council
 - Information Security and Identity Management Committee (ISIMC)
- Trust Framework Evaluation Team (TFET)
 - Assesses Trust Framework Providers
 - Stakeholder Representation
 - DHS, FTC, GSA, IRS, NASA, NIH, NSS
- Architecture Working Group (AWG)
 - Scheme profiles
- Infrastructure
 - E-Governance Trust Services (EGTS)
 - Metadata, IDP Certificates