



#### **Federal CIO Council**

### Federal Public Key Infrastructure Steering Committee

### Federal Approach to Electronic Credentials Information Assurance in an E-World

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## Privacy Act of 1974

### 4 Basic Objectives

- To restrict disclosures of personally identifiable records
- To grant individuals more rights to access records agencies maintain on them
- To grant individuals the right to seek amendments to agency records maintained on themselves
- To establish a code of "fair information practices" which requires agencies to comply with statutory norms for collection, maintenance, and dissemination of records



### **Identity Credentials**

- Driver's License
- Employee Identification Card
- Passport
- Birth Certificate
- Physical Presence
- Signature



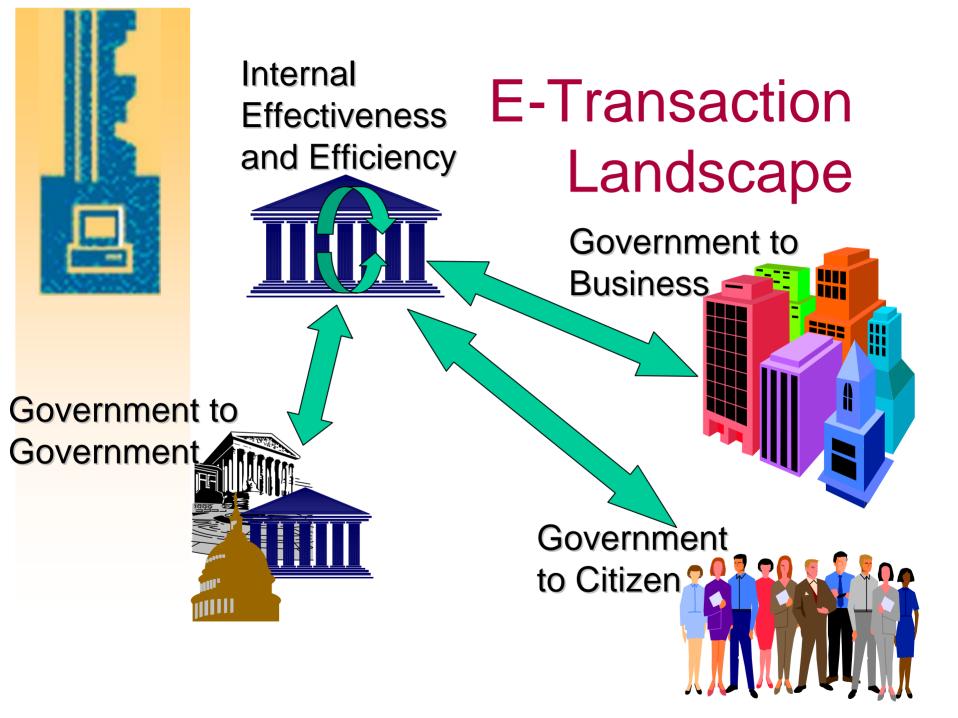


### Legislative Mandate

 Government Paperwork Elimination Act, October 1998

- Commitment to on-line government
- Public electronic access by October 2003
- Electronic Signatures in Global and National Commerce Act, June 2000

 "A signature may not be denied legal effect simply because it is electronic"





### E-Gov Initiatives

#### Government to Citizen

USA Service	GSA	• Federa
EZ Tax Filing	Treas	Online
Online Access (Loans)	DoEd	<ul> <li>Simpli Tax ar</li> </ul>
Recreation One-Stop	DOI	Consc
Eligibility Assist Online	Labor	Inform
Government to Government	ment	Busine     One-S
• e-Vital (business case)	SSA	• Int'l Tr
e-Grants	HHS	Strear
Disaster Assistance and Crisis Response	FEMA	Internal Effici
Geo-spatial Information	DOI	E-Trai
One-Stop		Recru
<ul> <li>Wiroloce Notworke</li> </ul>		

DOJ

- Wireless Networks DOJ
- Enterprise Legal Case
   Management

#### **Government to Business**

•	Federal Asset Sales	GSA		
•	Online Rulemaking	DOT		
•	Simplified and Unified Tax and Wage Reporting	Treas		
•	Consolidated Health Informatics	HHS		
•	Business Compliance One-Stop	SBA		
•	Int'l Trade Process Streamlining	DOC		
Internal Effectiveness and				
	Efficiency			
•	E-Training	OPM		
•	Recruitment One-stop	OPM		
•	Enterprise HR Integration including e-Travel	OPM		
•	Integrated Acquisition	GSA		
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E-Records Management NARA



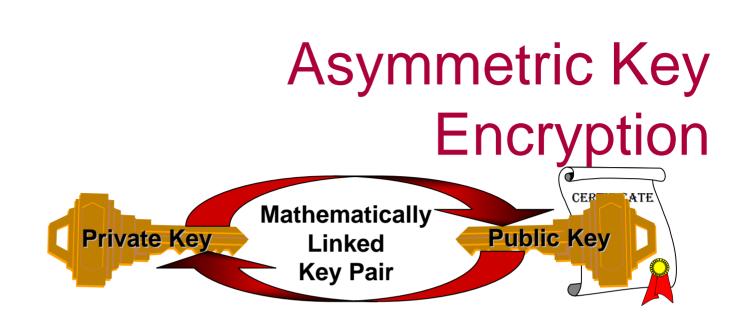
### A Few Facts

- Internet is perceived as inherently anonymous
- In order to protect privacy, government must know with whom it is dealing
- Knowledge must be within reasonable risk limits
- Electronic credentials provide the means to link identity in the electronic medium



# What is Security on the Internet?

- User Authentication
  - Knowing who your correspondent is
- Transaction Integrity
  - Ensuring the message sent is the message received
- Non-Repudiation
  - Correspondent cannot deny conducting transaction
- Confidentiality
  - Only authorized persons can read the message



- Protected by Owner
- •Used as Identity Credential
- •Used to Sign Messages
- Used to Decrypt

- Distributed Openly
- •Used to Authenticate Identity
- •Used to Verify Signatures
- Used to Encrypt



### **Identity Credentials**

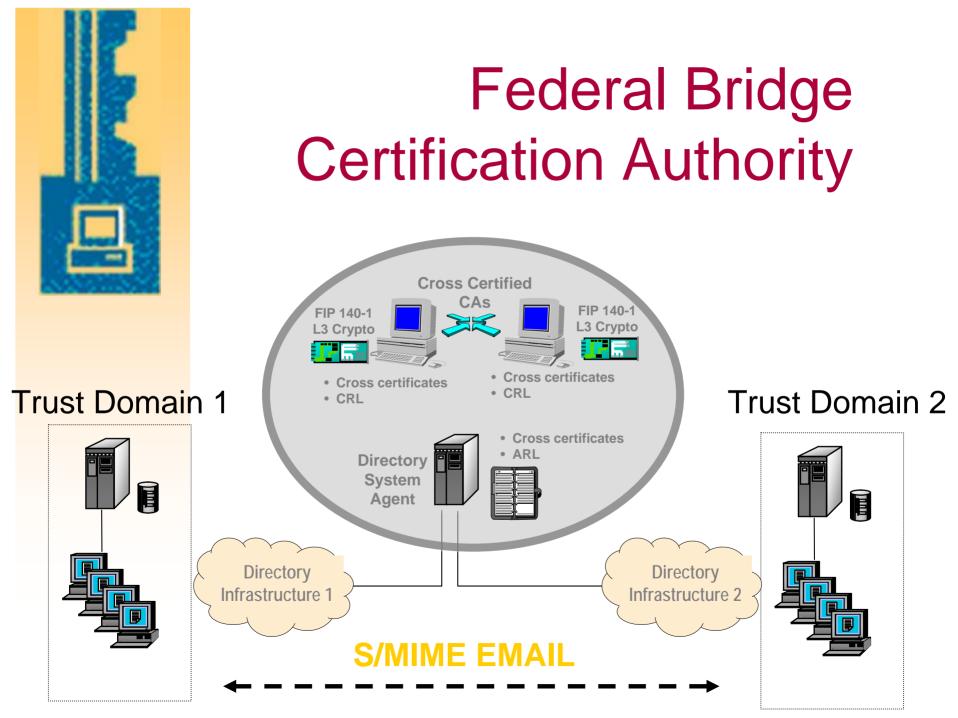
- Driver's License
- Employee Identification Card
- Passport
- Birth Certificate
- Physical Presence
- Signature
- Electronic Credentials (PKI Certificates)





### The Way Forward Simplify and Unify

- Promote Quicksilver e-Authentication Initiative
- Assist other initiatives in defining their identity authentication needs
- Develop applications for cross-governmental use
- Coordinate consolidated buy of authentication products and services
- Promote interoperability with other entities through FBCA





## Federal PKI Policy Authority

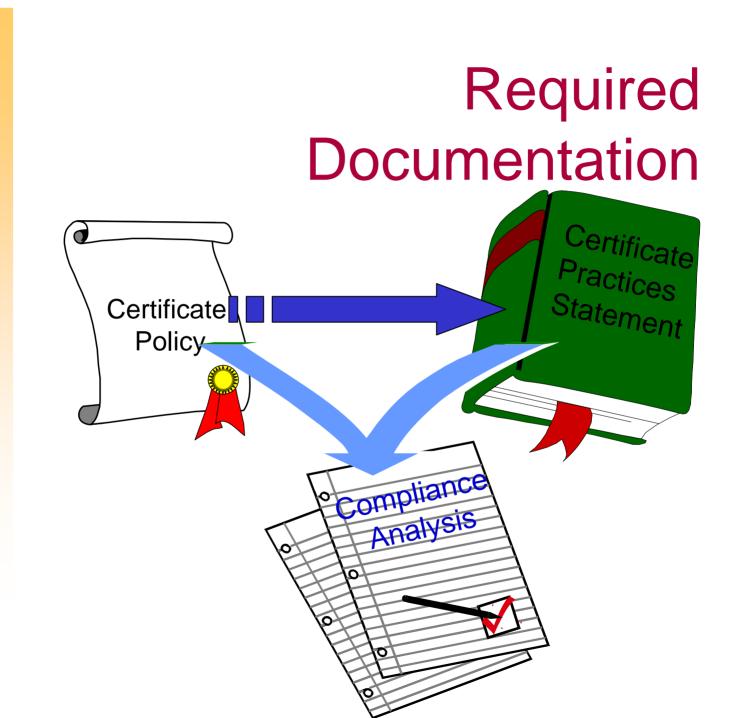
- Voluntary interagency group NOT "agency"
- Governing body for FBCA interoperability
- Oversees operation of FBCA, authorizes issuance of FBCA certificates
- Answers to Federal CIO Council
- Six Charter Members:
   GSA, Justice, DoC, NSA, OMB, Treasury



# **Policy Mapping**

Organization is mapped to one of 4 levels spelled out in Bridge Certificate Policy

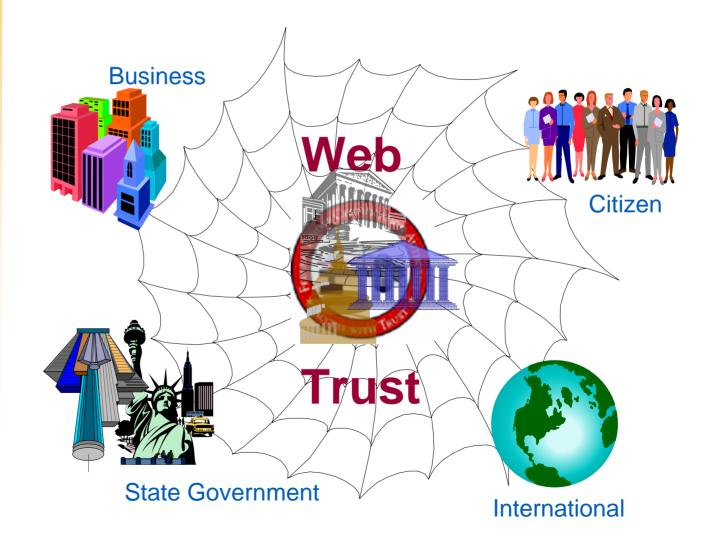
- Rudimentary
- Basic
- Medium
- High
- Only applies to Organization relationship with Bridge for purposes of interoperability







### A Vision for the Future





# **Closing Words**

• Our Vision - Enable e-government through:

- A cross-governmental, ubiquitous, interoperable Public Key Infrastructure.
- The development and use of applications which employ that PKI in support of Agency business processes.
- Government-wide initiatives include:
  - Federal PKI Steering Committee
  - Federal PKI Policy Authority
  - Federal Bridge Certification Authority
  - Access Certificates for Electronic Services