



NSTIC at 4: Putting an Ecosystem Into Operation

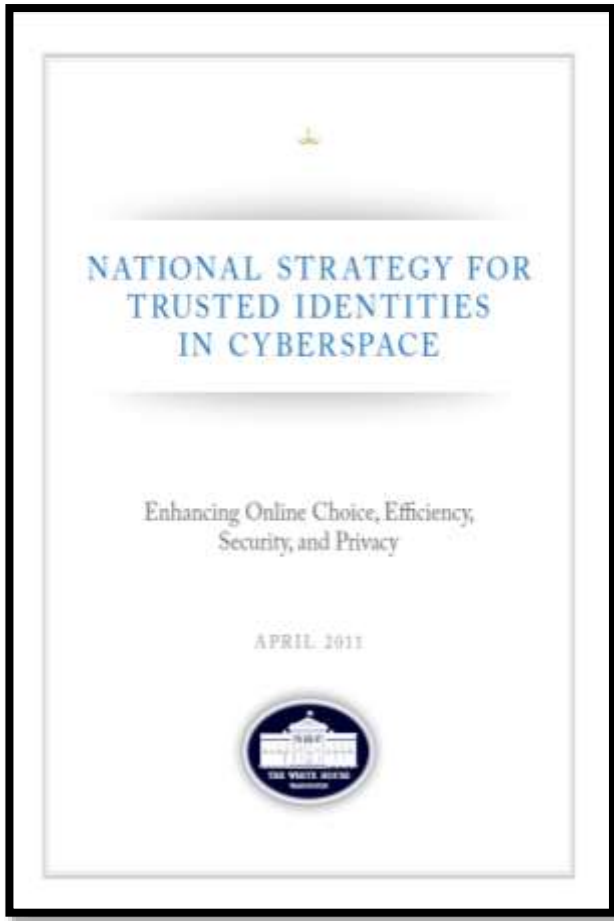
PAUL GRASSI

SENIOR STANDARDS AND TECHNOLOGY ADVISOR

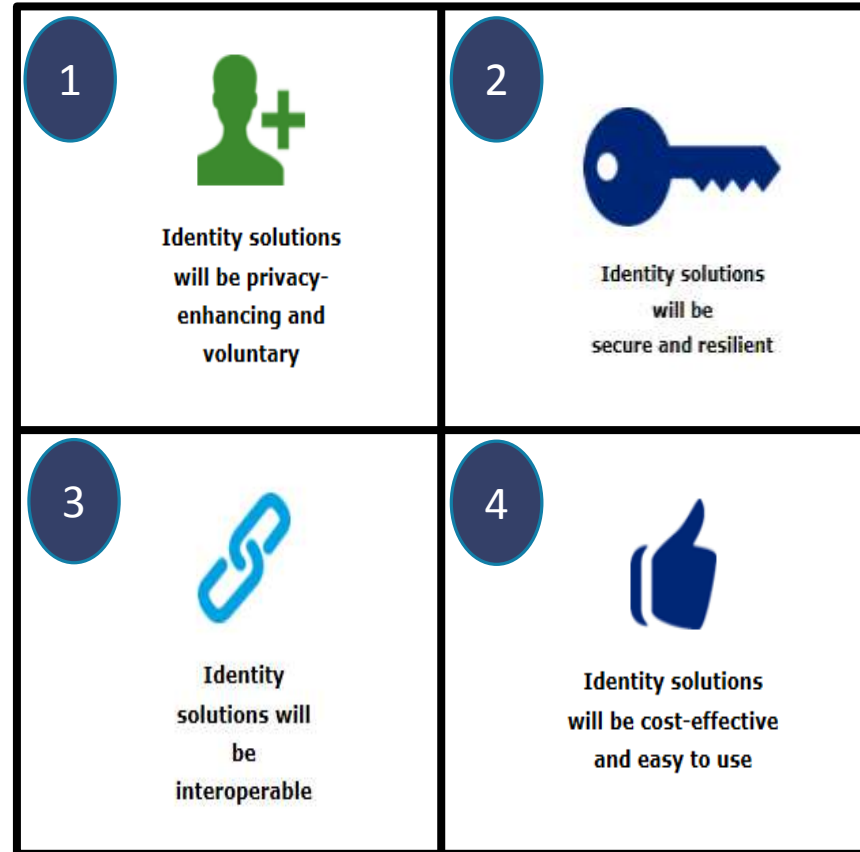
NSTIC NATIONAL PROGRAM OFFICE, NIST



Almost Four Years Ago...



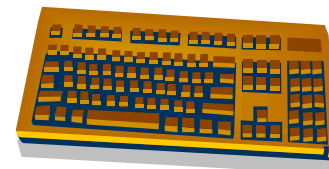
An Identity Ecosystem...with 4 Guiding Principles





Our Ultimate Goal...

Catalyze the marketplace – so that all Americans* can soon choose from a variety of new types of solutions that they can use in lieu of passwords...



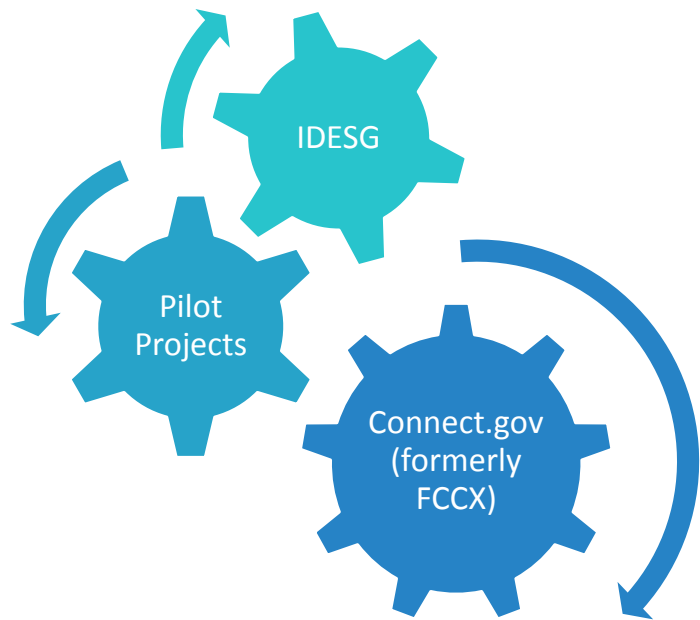
...for online transactions that are more secure, convenient and privacy-enhancing.



* We work toward this goal with everyone in mind—not just Americans—but American taxpayers pay us, so they're number one.



How We're Getting to Our Goal...



Identity Ecosystem Steering Group (IDESG)

- A privately-led group with an increasingly global focus

Pilot Projects:

- Catalyzing a marketplace of solutions and infrastructure

Connect.gov:

- Formerly Federal Cloud Credential Exchange (FCCX or “f-six”)



Who is Involved in the IDESG?

- 200+ firms/organizations; 60+ individuals
- Elected Plenary Chair (Kim Sutherland/LexisNexis) and Management Council Chair (Peter Brown); Elected 16 delegates to Management Council
- Member firms include: Verizon, Visa, PayPal, Fidelity, Citigroup, Mass Mutual, IBM, Bank of America, Microsoft, Oracle, 3M, CA, Symantec, Lexis Nexis, Experian, Neiman Marcus, NBC Universal, Aetna, United Health, Intel.
- Also: AARP, ACLU, EPIC, EFF, and more than 65 universities. Participants from 12 countries.

Committees Include:	
Standards	International Coordination
Privacy	Usability
Security	Accreditation
Heath Care	Financial Sector

Targeting the first half of 2015 to release Identity Ecosystem Framework v1





NSTIC Pilots Impact

More than 180,000 kids have been authorized by parents – in compliance with COPPA – to access content at websites
(PRIVO)

More than 300,000 Veterans can access online services from more than 70 organizations without having to share documents containing sensitive PII to prove Veteran status
(ID.me)

Inova Health Systems is enabling 1500 patients to securely obtain their personal health record, leveraging validated attributes from Virginia's DMV
(AAMVA)

A Broadridge/Pitney Bowes joint venture has launched targeting 140 million customers for secure digital delivery of financial services content, bill presentment and bill pay
(ID/Dataweb identity solution)

More than 140 universities are deploying smartphone-based MFA
(Internet2)



We Have to Implement Too

Home • Briefing Room • Presidential Actions • Executive Orders

The White House

Office of the Press Secretary



For Immediate Release

October 17, 2014

Executive Order --Improving the Security of Consumer Financial Transactions

EXECUTIVE ORDER

IMPROVING THE SECURITY OF CONSUMER FINANCIAL TRANSACTIONS

Given that identity crimes, including credit, debit, and other payment card fraud, continue to be a risk to U.S. economic activity, and given the economic consequences of data breaches, the United States must take further action to enhance the security of data in the financial marketplace. While the U.S. Government's credit, debit, and other payment card programs protect the security of consumer data and protect privacy and confidentiality,

By the authority vested in me as President, in order to improve the security of consumer financial transactions, I have ordered as follows:

Section 1. Secure Government Transactions. To help ensure that sensitive data are shared only with the appropriate person or people, within 90 days of the date of this order, the National Security Council staff, the Office of Science and Technology Policy, and OMB shall present to the President a plan, consistent with the guidance set forth in the 2011 National Strategy for Trusted Identities in Cyberspace, to ensure that all agencies making personal data accessible to citizens through digital applications require the use of multiple factors of authentication and an effective identity proofing process, as appropriate. Within 18 months of the date of this order, relevant agencies shall complete any required implementation steps set forth in the plan prepared pursuant to this section.

Sec. 3. Securing Federal Transactions Online. To help ensure that sensitive data are shared only with the appropriate person or people, within 90 days of the date of this order, the National Security Council staff, the Office of Science and Technology Policy, and OMB shall present to the President a plan, consistent with the guidance set forth in the 2011 National Strategy for Trusted Identities in Cyberspace, to ensure that all agencies making personal data accessible to citizens through digital applications require the use of multiple factors of authentication and an effective identity proofing process, as appropriate. Within 18 months of the date of this order, relevant agencies shall complete any required implementation steps set forth in the plan prepared pursuant to this section.





Government Adoption

Connect.gov provides enhanced security and privacy services and has the capability to accept digital credentials at Level of Assurance (LOA) 1, 2, 3 and 4.

Level of Assurance		LOA 4 – Very High Confidence in Asserted Identity	 simpler stronger authentication BYOT?
		LOA 3 – High Confidence in Asserted Identity ✨	
		LOA 2 – Some Confidence in Asserted Identity	
		LOA 1 – Little or No Confidence in Asserted Identity	

✨ *Greatest need for citizen identity proofing and authentication*



Breaking News (soon)!

NIST WILL BE JOINING THE FIDO ALLIANCE AS ONE OF ITS FIRST GOVERNMENT MEMBERS!



But why...?

- ✓ Aligned with all 4 NSTIC GP's
- ✓ Private sector led
- ✓ Continued commitment to eradicating the password as the primary way to authenticate
- ✓ We can learn from each other
- ✓ We want to help
- ✓ Complementary to other standards efforts that envision the NSTIC Identity Ecosystem
- ✓ Potential ubiquity (think mobile)
- ✓ And if consumers have FIDO-based tokens, why not Connect.gov?
- ✓ USG Identity Reboot



Questions?

Paul Grassi, CISSP

Senior Standards and Technology Advisor, NSTIC
National Institute of Standards and Technology
U.S. Department of Commerce

www.nstic.gov

paul.grassi@nist.gov

Identity Ecosystem Steering Group

www.idecosystem.org

Check our Funding Opportunities page: <http://go.usa.gov/3B29j>

NIST 800-63-2 Note To Reviewers (aka RFI): <http://go.usa.gov/3B28Q>