

The Implementation of Homeland Security Presidential Directive 12

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Information Security and Privacy Advisory Board
September 14, 2006




Home Security Presidential Directive 12 (HSPD-12):
“Policy for a Common Identification Standard for Federal Employees and Contractors”

-- Signed by President: **August 27, 2004**

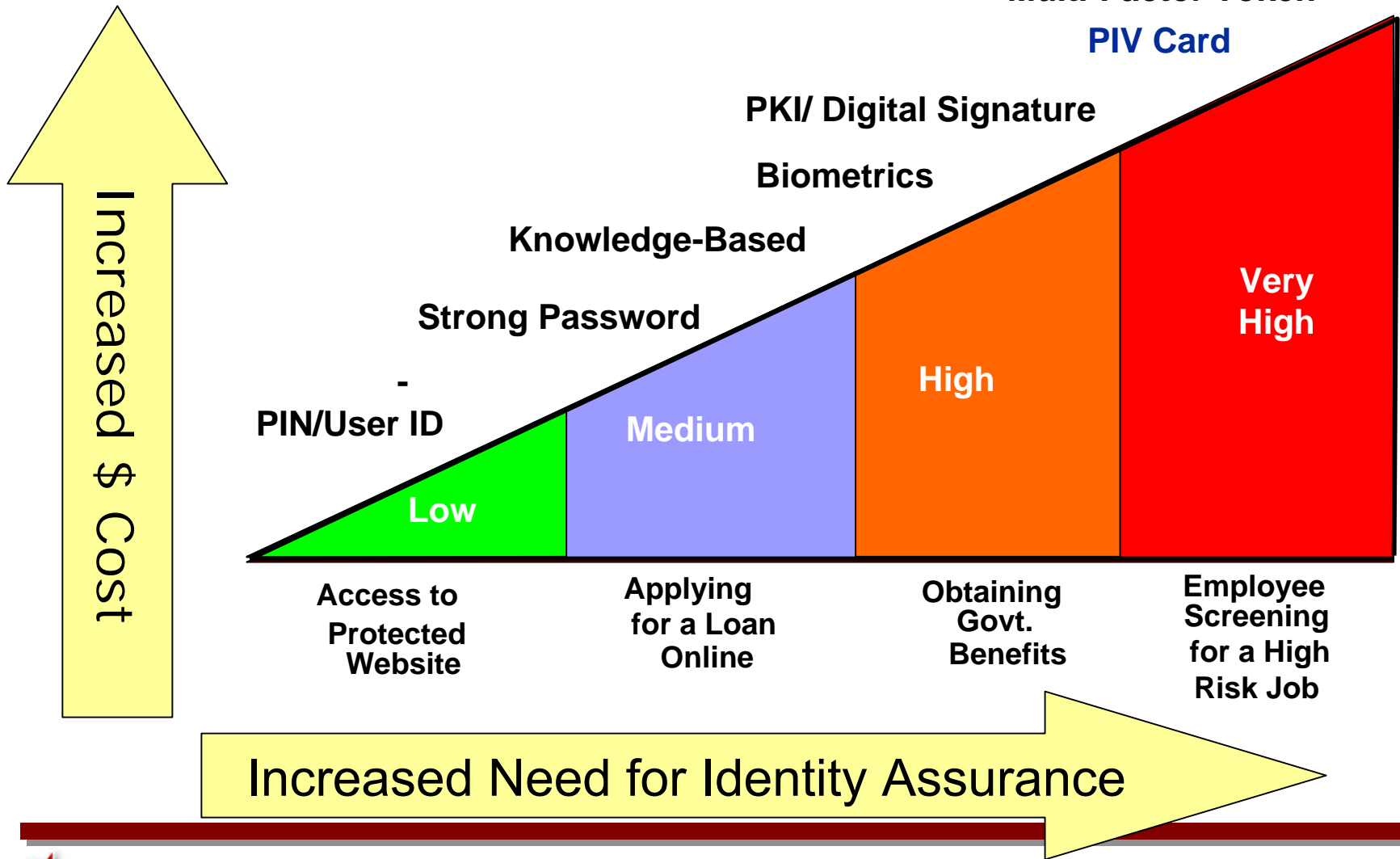
- ◆ **HSPD-12 has Four Control Objectives:**
- ◆ Issue Identification based on sound criteria to verify an individual’s identity.
- ◆ Strongly resistant to fraud, tampering, counterfeiting, and terrorist exploitation.
- ◆ Personal Identity can be rapidly authenticated electronically.
- ◆ Issued by providers who’s reliability has been established by an official accreditation process.

Key Milestones



Timeline	Agency/Department Requirement/Milestone
 August 27, 2004	HSPD-12 signed and issued
 Not later than 6 months (February 27, 2005)	NIST Issue standard (FIPS-201)
 Not later than 8 months following issuance of standard (October 27, 2005)	Compliance with FIPS-201 Part One: Identity Proofing and Enrollment. PIV-I
Not later 20 months following issuance of standard (October 27, 2006)	Commence deployment of FIPS-201 compliant Identity Credentials (FIPS-201 Part Two). PIV-II
Not later than 32 months following issuance of standard (October 27, 2007)	Compliance with FIPS-201 Part Two: Fully operational Physical and Logical Access

Four Authentication Assurance Levels to meet multiple risk levels



Multiple Authentication Technologies

To provide multiple authentication assurance levels, FIPS 201 requires multiple authentication technologies:

- Authentication using PIV Visual Credentials
- Authentication using the CHUID – contact or contactless
- Authentication using PIN
- Authentication using Biometric (match on/off card)
- Authentication using PIV asymmetric Cryptography (PKI)

Something I have – PIV Card

Something I know - PIN

Something I am - Biometric

OMB Guidance – Key Points

OMB Guidance for HSPD-12 - M-05-24:

- To ensure government-wide interoperability, agencies must acquire only products and services that are on the approved products list
- GSA is designated the “executive agent for Government-wide acquisitions of information technology” for the products and services required to implement HSPD-12
- GSA will make approved products and services available for acquisition through SIN 132-62 under IT Schedule 70
- GSA will ensure all approved suppliers provide products and services that meet all applicable federal standards and requirements

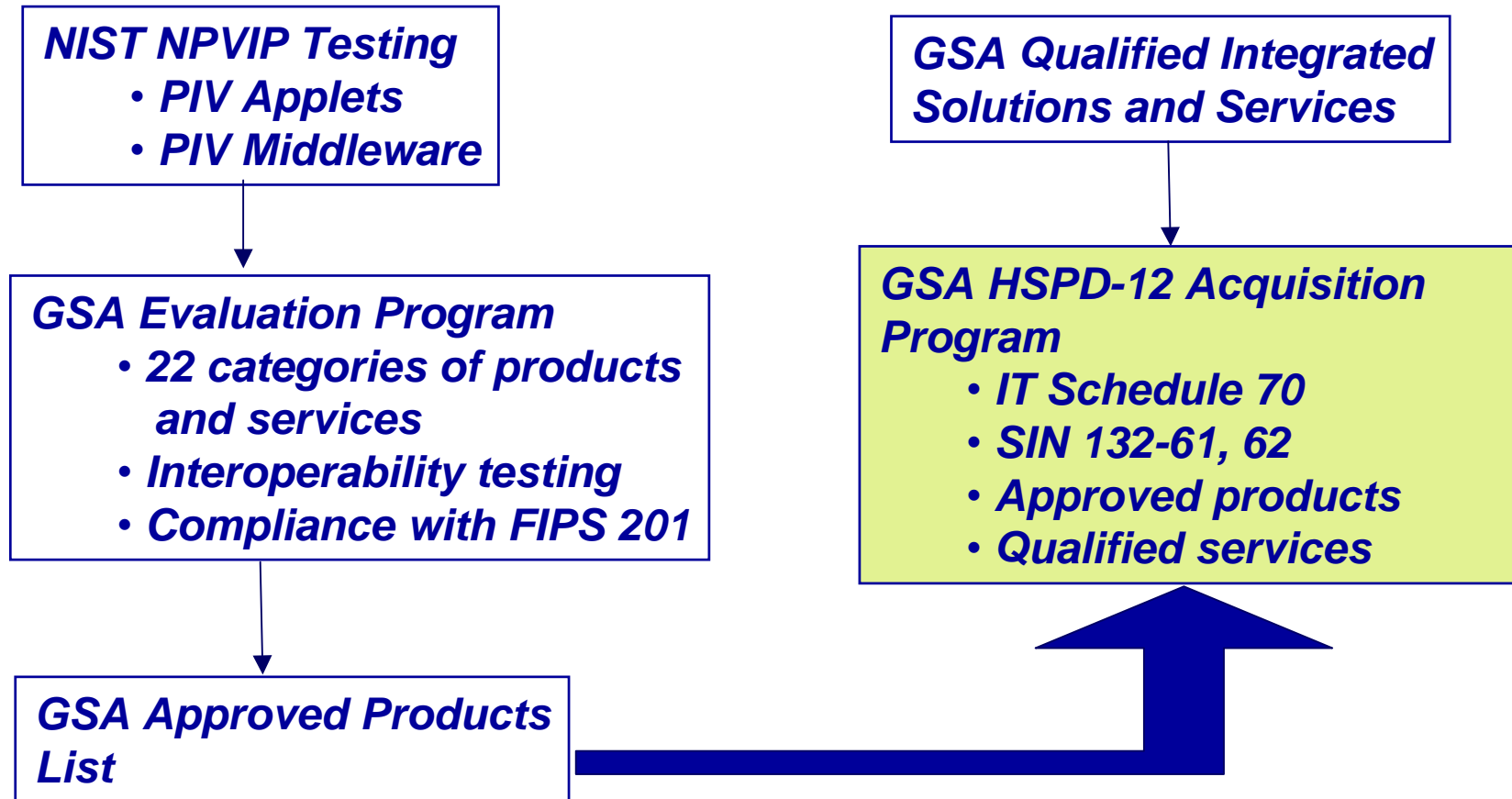
<http://www.whitehouse.gov/omb/memoranda/fy2005/m05-24.pdf>

- Establish interoperability and common performance testing to meet NIST standards, product interoperability testing
- Establish Approved Products Lists for product and services categories requiring FIPS 201 compliance
- Qualify products and services on IT Schedule 70 and SIN 132-62 as FIPS 201 compliant
- Provide full-range of qualified products and services to meet Agency implementation needs
- Approved products and services will be made available on government-wide basis through GSA IT Multi-Award Schedule 70
 - ✓ Under E-Gov Act of 2002, State and local Governments can acquire products/services directly from IT Schedule 70.

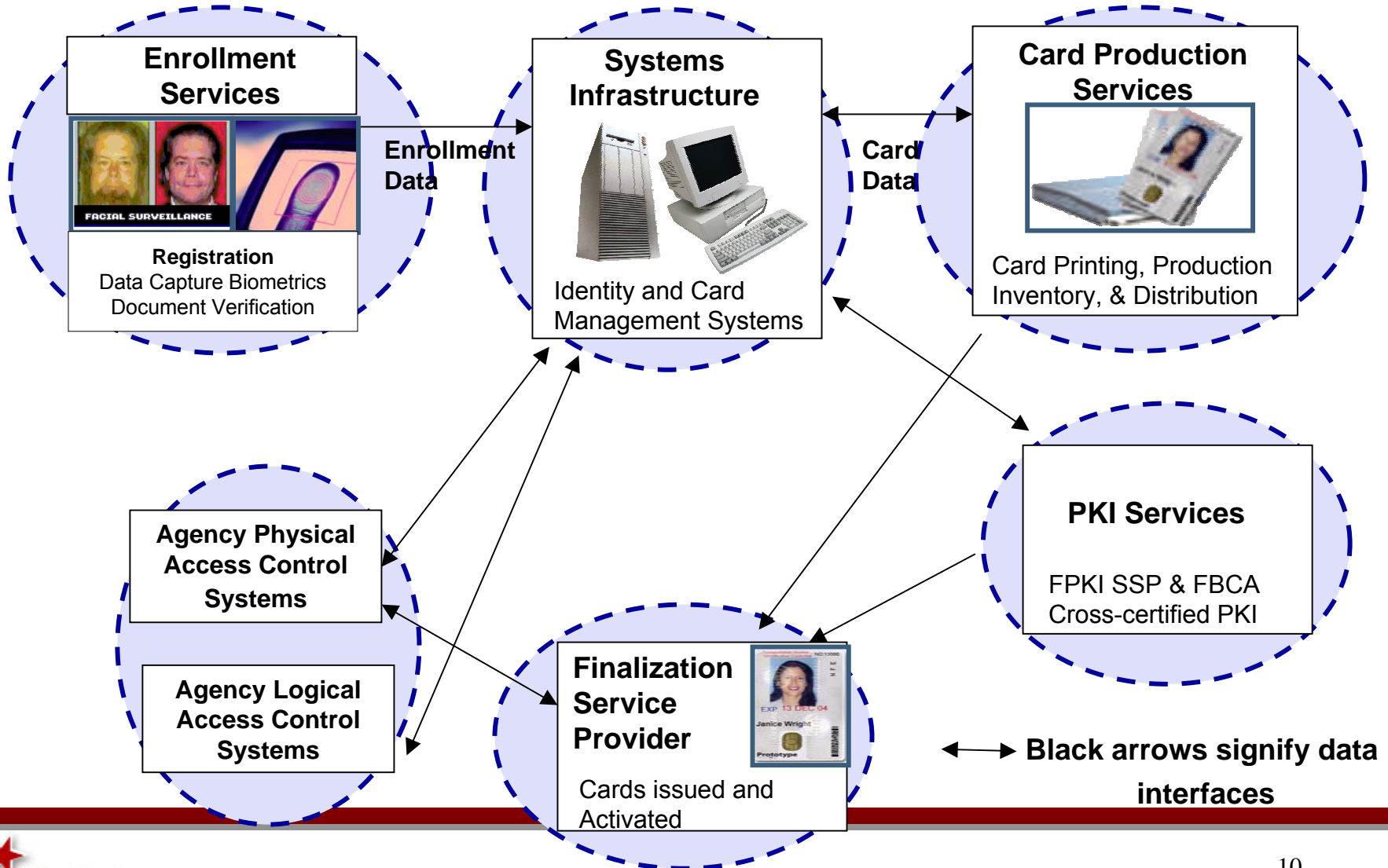
GSA FIPS 201 Evaluation Program

- NIST FIPS 201-- the PIV Standard -- established normative requirements for processes and technologies for HSPD-12 security and interoperability
- GSA identified 22 categories of products/services directly impacted by FIPS 201 requirements
 - ✓ All 22 categories of products/services are needed for HSPD-12 implementation
- GSA Evaluation Program evaluates all products/services for conformance to FIPS 201 requirements
 - ✓ Approved products are posted to the Approved Products List
- Evaluation Program Goal – Ensure products/services used to implement HSPD-12 meet all FIPS 201 security and interoperability requirements.

Relationship of HSPD-12 Evaluation and Acquisition Programs



HSPD-12 System Components



Accessing the Approved Products and Services



Approved Products for PKI, systems integrators, and FIPS 201 products are accessed at <http://idmanagement.gov>

QUICK CLICK
Gov Appr. Products
SEARCH

IDM INFORMATION:
Home
FAQs
Library
News

USEFUL LINKS:
E-Authentication
FBCA
Federal Smart Cards
FICC
FIPS 201 Eval. Program
FPKI Policy Authority
FPKI Steering Committee
Govt Smart Card IAB
NIST PIV Project

Printer Friendly

Government Approved Products

HSPD-12 requires that federal identity management and credentialing systems be interoperable; this is the first time that interoperability across all departments and agencies has been mandated. To ensure interoperability, products and services will be evaluated and approved for HSPD-12 implementation.

The National Institute of Standards and Technology (NIST) established the NIST Personal Identity Verification Program (NPIVP) to validate Personal Identity Verification (PIV) smartcard and middleware components. For more information visit <http://csrc.nist.gov/npivp/>.

GSA established the FIPS 201 Evaluation Program to complete the performance and interoperability testing process. GSA publishes an Approved Products List for products and services that have completed NIST validation and GSA testing, as required. For more information visit <http://www.smart.gov/fips201apl/>.

Government Certified and Approved Product and Service Listings:
[PKI Shared Service Providers \(http://www.cio.gov/ficc/cpl.htm\)](http://www.cio.gov/ficc/cpl.htm)
[FIPS 201 Products and Services \(http://fips201ep.cio.gov/apl.php\)](http://fips201ep.cio.gov/apl.php)
[Qualified HSPD-12 System Integration Service Providers](#)

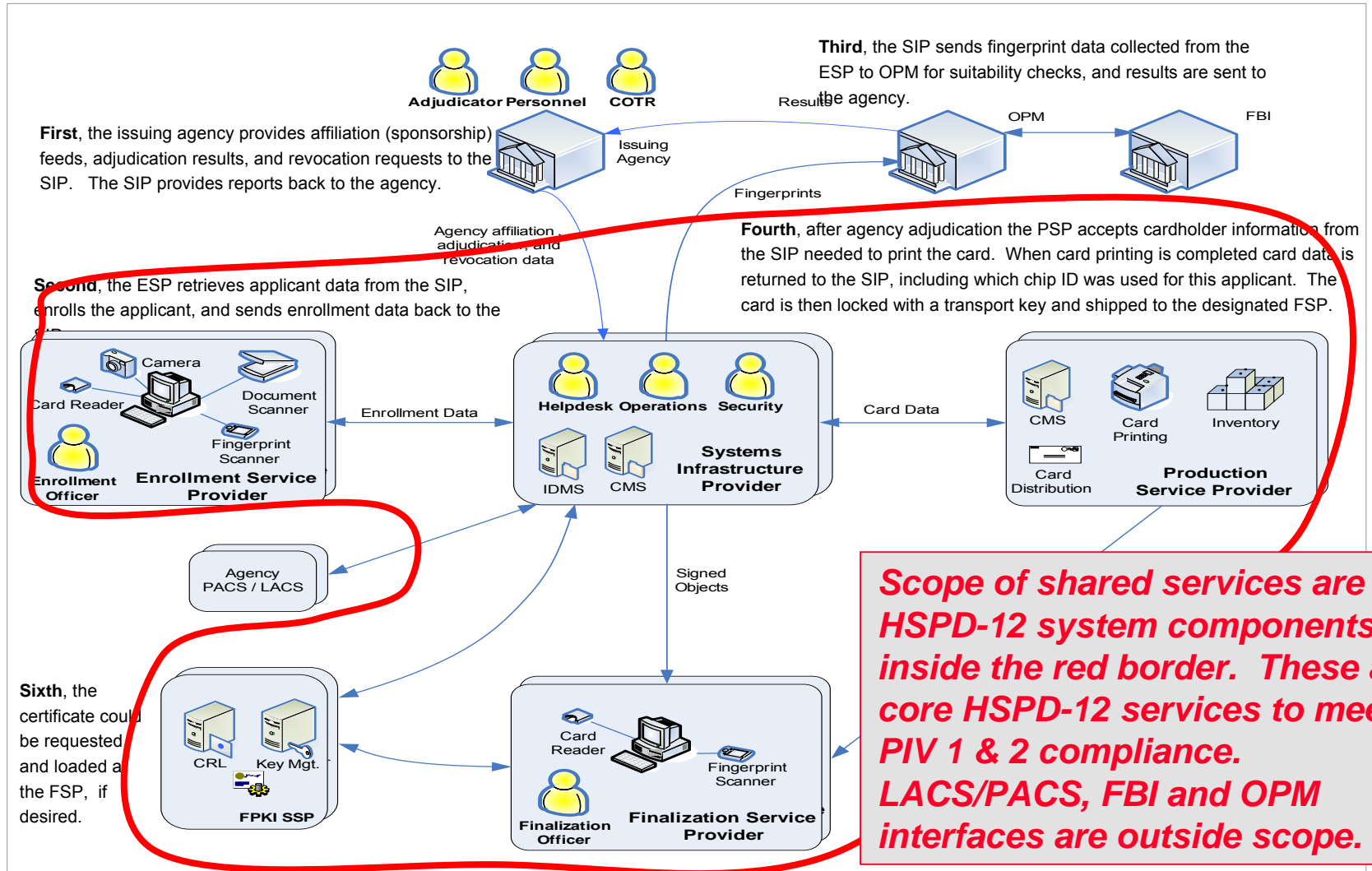
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WHITEHOUSE.GOV READY.GOV FIRSTGOV.gov ExpectMore.gov

Where are we today? 43 days to go (counting weekends)

- 9 agencies committed to their own infrastructure:
 - ✓ DHS, DoD, NASA, DoS, SSA, EPA, NSF, HHS, Treasury
- 100+ Agencies want to share infrastructure
 - ✓ All small agencies
 - ✓ DOC, HUD, USDA, DOI, GSA, DOE, OPM, Federal Reserve, NARA, FCC committed
 - ✓ Several undecided
- Shared Service Providers
 - ✓ DoD – for branches of military
 - ✓ 8 agencies serviced by State Dept
 - ✓ DOI RFP issued July 24 for agencies serviced by DOI HR
 - ✓ GSA
- GSA Government-wide Shared Service
 - ✓ SSP RFP award 8/18
 - ✓ Intended for government-wide use
 - ✓ Agencies to sign up through MOU and Interagency Agreement by September 30
 - ✓ GSA Managed Service Office established 7/06
 - ✓ Will meet 10/27/06 implementation requirements for all participating agencies

HSPD-12 Shared Services Architecture



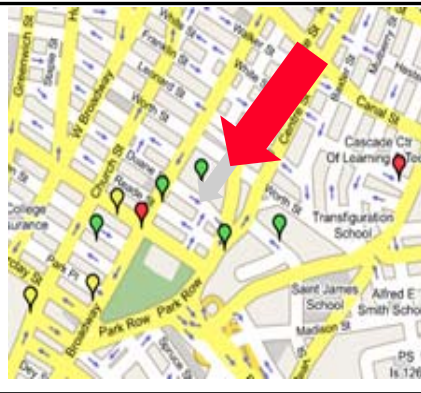
Shared Services Initial Operating Capability



GSA Shared Services will issue PIV cards NLT 10/27/06 for all participating agencies in 4 multi-tenant locations.

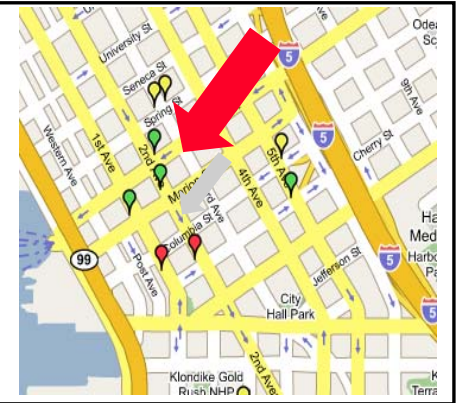
New York, NY

Jacob K Javits
Federal Bldg
26 Federal Plaza



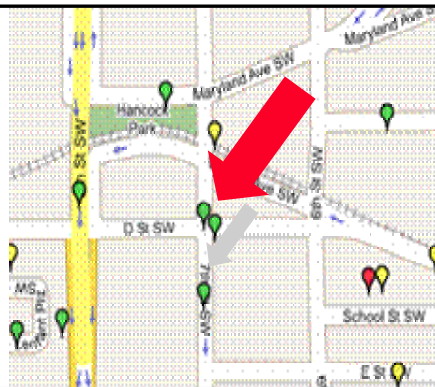
Seattle, WA

Jackson Federal
Bldg
915 Second Ave



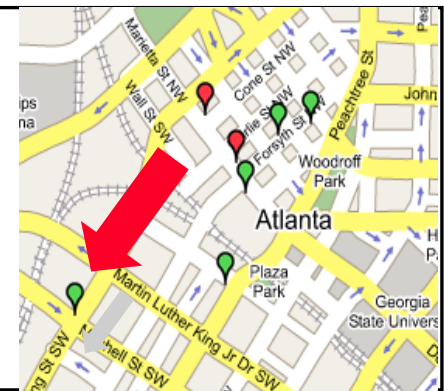
Washington, DC

GSA-ROB
7th and D St SW



Atlanta, GA

Richard B Russell
Federal Bldg
75 Spring St



Agencies Touched by Initial Rollout



Initial Operating Capability in New York, Seattle, Atlanta, Washington DC provides local access to shared enrollment stations for 133 federal agencies.

COM USFS DOL SSA GSA
SBA HHS RRB NLRB USDA DOS
EPA DOJ USA Dept
USAF Dept HUD DHS

New York, NY: Javits Federal Bldg

COM DOC DOS DOJ USDA DOL
HUD DHS VA DOI DOE DOT
DoD Navy ED FTC EEOC
OPM EOP USFS EPA GSA
SSA NLRB GAO
Tax CT SBA HHS
USA Dept RRB

Seattle, WA: Jackson Federal Bldg

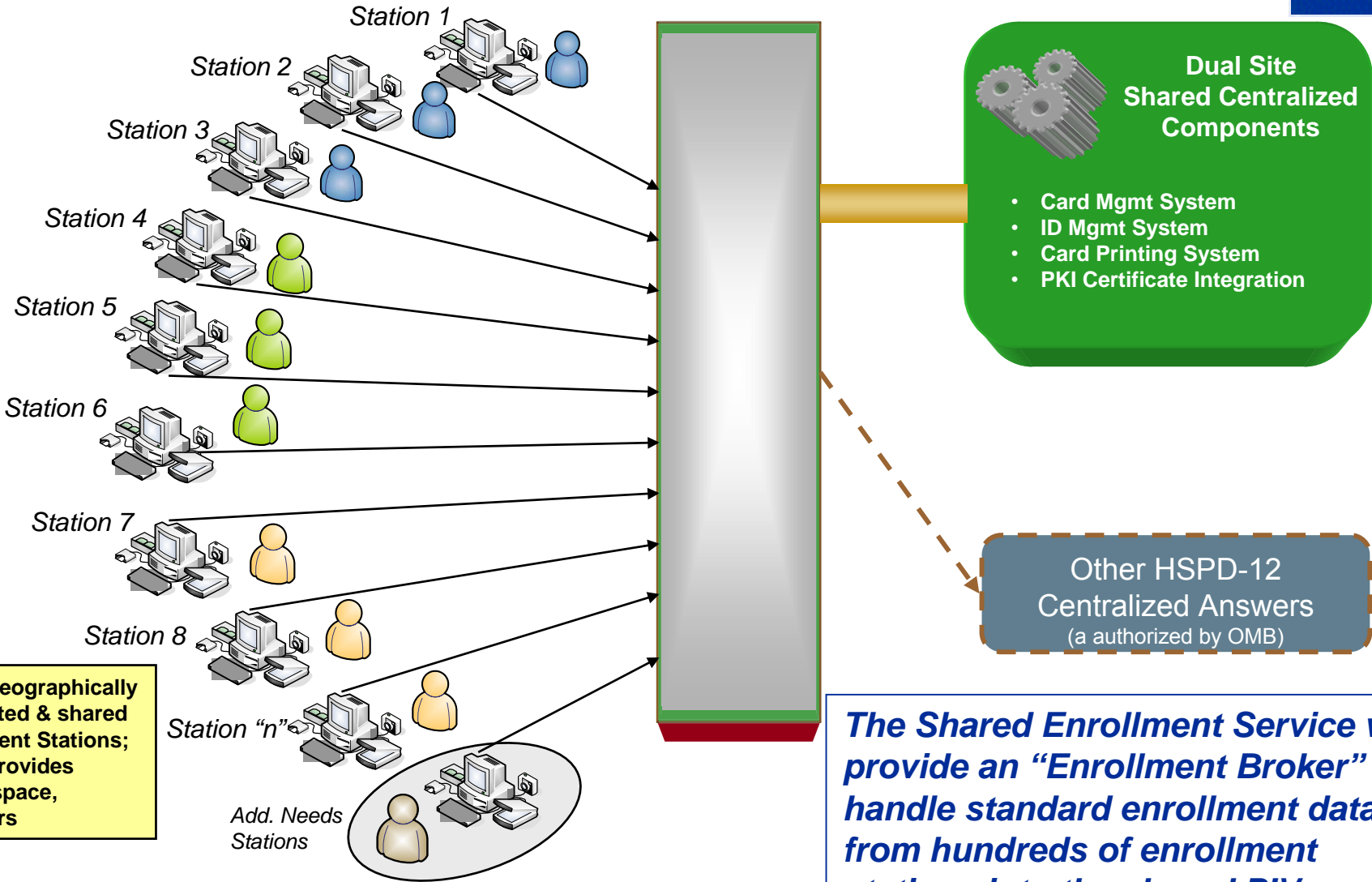
ED SSS ATBCB IMLS FCC OPIC USITC CRC DOE
MSPB AFRH GSA BBG FHFH DOC CFA
ABMC ARC USSC CCFF ED
GSA USDA USSC CNS
FTC AC/IR ADF NEA EEOC COM FLRA
SBA FCA NIGC DOJ FRB USTR TPT
DOT CNFSB MMC NSF RRB STB
NARA FDIC NEH FAMA JMMFF FERC TDA
FEC MCC DRA NCPC CPPBSD OSC NGA
HRSF PBGB DOL PRC NWTRB NCD
IMLS HUD IAF NRC LSC USIP FCSIC TD NCLIS

DOJ HUD USAF Dept USDA Navy SSA
DOI HHS EEOC DOL DOT
GSA EPA EOP ED USA Dept
DHS
USDA

Atlanta, GA: Richard B Russell Federal Bldg

Washington, DC: GSA-ROB

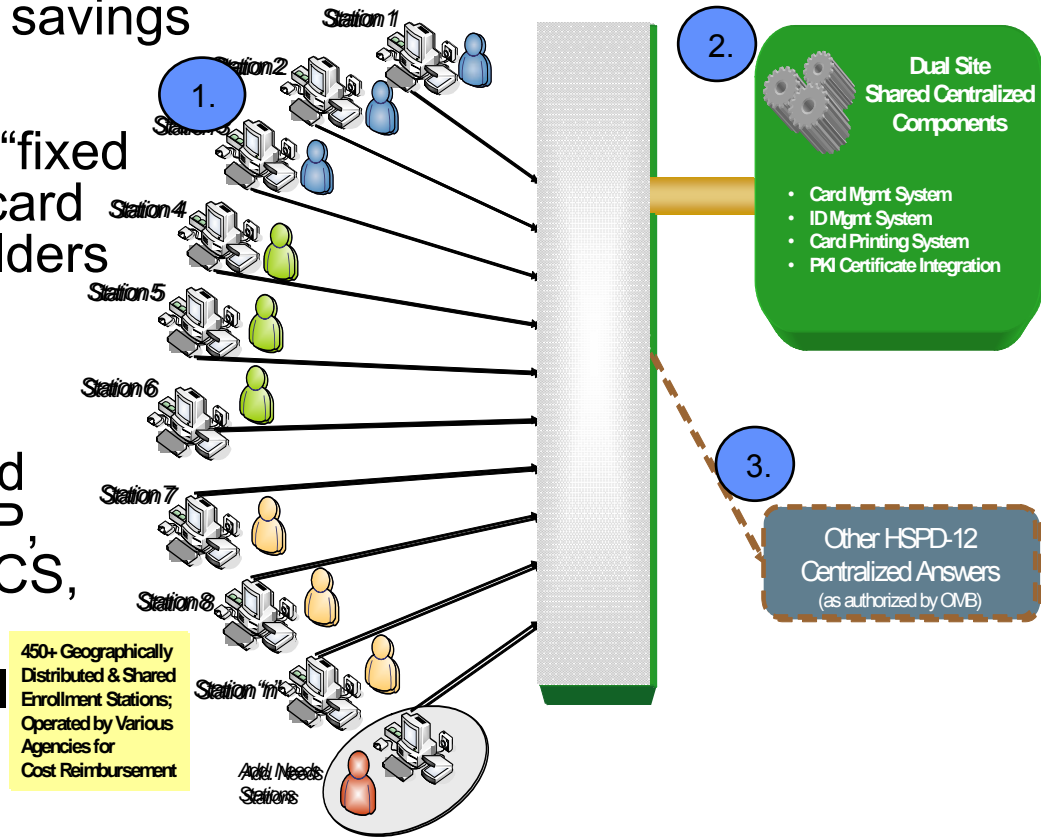
HSPD-12 Federal Shared Enrollment Service



• 200+ geographically distributed & shared Enrollment Stations;
• GSA provides leased space, operators

Sharing Opportunities

1. Enrollment Stations – largest single cost; largest opportunity for savings
2. Centralized Components – “fixed cost” item whether 10,000 card holders or 1 million card holders
3. Standard Interfaces
 - AWG developing standard interfaces for enrollment/SIP, SIP/OPM, SIP/FBI, SIP/PACS, backend authentication
 - Potential for standard API
4. Other Opportunities - TBD



- FAR Interim Rule: Common Identification Standard for Contractors
 - ✓ Published as Interim Rule January 3, 2006; final rule approved for issuance 9/06.
 - ✓ Contractors must comply with PIV requirements for personnel needing routine access to Federal facilities and/or information systems
 - ✓ Coordinated and issued by Civilian Acquisition Council (CAC) and Defense Acquisition Regulations (DAR) Council.

- FAR Case 2005-017: Requirement to Purchase Approved Authentication Products and Services
 - ✓ Issued as Proposed Rule, 8/23/06.
 - ✓ Requires agencies to use only FIPS 201 approved products and services for the implementation of HSPD-12.

Conclusion

Where we are today.....

It ain't pretty

Gotta move forward ...

Lots and lots of moving parts...

I believe we'll achieve the goal.

For More Information



- Visit our Websites:

<http://www.idmanagement.gov>

<http://www.cio.gov/ficc>

<http://www.cio.gov/fpkipa>

<http://www.csrc.nist.gov/piv-project>

- Or contact:

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