IAB Minutes

January 18, 2006

The Interagency Advisory Board (IAB) meeting convened on Wednesday, January 18, 2005 at 9:00 AM in the GSA Auditorium. The meeting was chaired by Mike Butler. After his introductory remarks, the following agenda items were presented and discussed.

A. HSPD-12 RFI – Judy Spencer (GSA). The status of the RFI was discussed:

- Scope is overall Card Issuance and Life Cycle Management
- 79 Responses were received from industry, averaging 25 pages each
- Initial analysis underway
- Review of analysis scheduled for Jan 25, 2006
- Results & recommendations to Senior Management scheduled for Feb 15, 2006
- Guidance to Departments and Agencies expected from OMB by April 2006

B. GSA FIPS-201 Evaluation Program – April Giles (GSA). Key Points:

- Purpose: (1) determine if product or service complies with FIPS 201 requirements, and (2) establish Approved Products List (APL) for acquisition
- Approved products to be available on GSA blanket purchase agreement (BPA) that will replace existing GWAC
- APL scope: products & services bound by FIPS 201 & supporting documents
    - System Integrators and Computers are outside the APL scope
- Card Reader Interoperability SOW: contract awarded, deliverables received
- Evaluation Program Development SOW: contract just awarded
- Timeline:
    - 1/02-4/10/06 Design Modular Evaluation Lab
    - 1/16/06 NIST Conformance testing completed for 2 cards
    - 2/1/06 NIST SP-800 Final
    - 2/6/06 BPA Established
    - 2/20/06 Validate card/reader interoperability requirements
    - 4/09-5/22/06 Standup Evaluation Lab
    - 4/18/06 Accept vendor applications for APL
    - 5/22/06 Begin Products/Service assessment

C. **Authentication Schema Working Group – Tim Baldridge (NASA).** Key Points:

- Working group formed to address how an agency will determine the NACI status of a visitor without requiring a NACI status indicator to be stored on the PIV Card
- Tasked by OMB to propose an architecture for authentication and vetting status with web services to replace storage of NACI indicator on PIV
- Appears to be 4 areas to this challenge:
    1. Authenticating and validating PIV Credentials of Visitors
    2. Registering this within the Local Physical Access Systems (PACS)
    3. Verifying PIV Cardholders during daily use within the Local PACS
    4. Using PIV infrastructure to make available information on changes in card validity (e.g. terminations, lost/stolen, etc.) of PIV cardholders
- At a minimum, Working Group must address #1 and #4
- Met 3 times, developed white paper, are examining different technical approaches

- Will make a virtual call for additional participants in the coming weeks

Next, representatives from four industry associations presented to the IAB.

D. Smart Card Alliance - Randy Vanderhoof (SCA). Key Points:

- Bob Merkert presented an overview of SCA's Physical Access Council (PAC)
    - Mission: Accelerating widespread acceptance, usage, and application of smart card technology for physical access control
    - Participation from 48 Smart Card Alliance member organizations
    - Focused on helping agencies understand how to implement PIV cards and deploy FIPS 201 compliant PACS
- 5th Annual Smart Cards in Government Conference, April 18–20, 2006
    - Will address: HSPD 12, ePassport, Registered Traveler, REAL ID. …
    - 40 exhibitors & Education Institute workshop
    - Sheraton National Hotel, Arlington
- More at www.smartcardalliance.org

E. Security Industry Association – Rob Zivney (SIA). Key Points:

1. SIA is a trade association for physical and electronic security, formed in 1969, now has 300+ members from leading companies in the field
2. Core areas: standards, education, research & technology, government relations
3. Have formed a PIV Working Group
4. More at www.siaonline.org

F. National Biometric Security Project – Richard Norton (NBSP). Key Points:

1. Mission: Assist government and private sector organizations deter terrorist attacks on the civil infrastructure by enhancing effective, automated human identification through the application of proven biometric technologies
2. Headquartered in Washington, DC; testing lab in Morgantown, WV
3. Have established criteria for testing against minimum performance thresholds
4. Customized tests for unique operating requirements of each government user
5. Services can be procured on GSA Schedule for HSPD-12 and other initiatives
6. More at www.nationalbiometric.org

G. **International Biometric Industry Association – Tovah LaDier (IBIA).** Key Points:

- IBIA is the leading trade association for the biometrics industry
- Support many biometrics: fingerprint, iris, hand, facial, skin, voice, and even DNA
- More at www.ibia.org

H. Agency HSPD-12 Implementation Best Practices – Mike Butler (DoD). Key Points:

- It's not easy…, …but it's not impossible
- Lessons learned: find a strong leader, build consensus, make decisions, stay focused, HR is a critical player, evolve – don't wait for the perfect solution

- It takes time and many cards to become widely recognized and accepted as valid
- Lots of people will tell you it can't be done: keep going
- Lots of people will put up roadblocks: keep going
- Design flexibility in, keep the future in mind

I. **Physical Access Control System (PACS) Guidance v2.3E - Mike Sulak (State).** Key Points:

- Approved by the IAB via electronic vote: 8 Yes, 1 No (with comments)
- 2 vendors also attempted to vote, but were not included
- Upon approval, PACS TIG 2.3E was transmitted to NIST
- NIST quickly replied with comments and concerns
- Result is PAIIWG has a few more issues to examine before finalizing PACS TIG
- Hope to finalize by late January or mid February 2006

J. **FIPS 201 Implementation Challenges – Bob Gilson (DoD).** DoD has identified seven significant issues/implementation challenges with FIPS 201 and PIV II:

1. OID Conflict between PIV Auth Key & CAC Signature Key
   - Propose changing PIV Authentication Key OID to 0x0105
2. Security Object does not provide guidance for CHUID, Fingerprint, and PKI cert
3. Differences between READ BINARY and GET DATA commands
   - Propose allowing the use of both
4. CHUID Buffer Length omitted from SP 800-73
   - Propose including Tag EE in CHUID as optional field
5. Expiration Date consistency for printed, CHUID, and Printed Information Buffer is not clearly specified in SP 800-73
   - Proposed clarification: All dates refer to Card Expiration Date
6. PIN protection for PIV Auth Key Cert is causing operational problems with Windows smart card logon
   - Proposal: Consider removing PIN requirement from PIV Auth Key
7. More guidance is requested for the digital camera interface for enrollment

- Request the IAB and NIST review these challenges and develop a viable solution for each

K. DoD Contactless Pilot – Bob Gilson (DoD) for Frank Jones. Key Points:

- Contactless building pilots to begin in April 2006:
  - Army: Redstone Arsenal; Ft. Hood
  - Navy: NSWC Crane; Millington; Mechanicsburg
  - Marine Corps: Quantico
  - Air Force: Wright-Patterson; Langley; SAF XC Rosslyn
  - DISA: DISA HQ
  - DMDC: Access Card Office
- Plan to issue approximately 5,000 cards
- Will conduct physical access testing with multiple vendors and compile usage

statistics and analysis of both dual card readers and contactless-only readers
- Will include complete durability testing
- Will assess impact on issuance times
- Will determine training requirements for field

L. Revisions to FIPS 201 and Special Pubs – Curt Barker (NIST). Key Points:
- FIPS 201, SP 800-73, SP 800-79, SP 800-85A, and SP 800-85B are all scheduled to be revised in 2006
- FIPS 201-1 is expected by February 2006. (It is currently somewhere between the Director of NIST and Secretary of Commerce, awaiting signature)
- FIPS 201-1 includes (1) errata changes and (2) changes to bring it in compliance with OMB Memorandum M-05-24
- With these changes, FIPS 201-1 will specifically require that a NACI status indicator be present on a PIV Card
- NIST advertised the following Publication Schedule for revised and new documents:

Document	Call for Suggested Changes	Public Draft (PD or FRN)	Comment Period Closes	Publication Date (Est.)
Revisions				
FIPS 201-1	N/A	Sep-05	Oct-05	Jan-06
FIPS 201-2	Feb-06	Jun-06	Aug-06	FY 2007
SP 800-73-1	Feb-06	Jun-06	Aug-06	FY 2007
SP 800-79-1	Feb-06	Apr-06	May-06	Jun-06
SP 800-85A	N/A	Jan-06	Feb-06	Feb-06
SP 800-85A-1	Oct-06	FY 2007	FY 2007	FY 2007
SP 800-85B-1	Oct-06	FY 2007	FY 2007	FY 2007
New Publications				
SP 800-76	N/A	Dec-05	Jan-06	Feb-06
SP 800-85B	N/A	Jan-06	Feb-06	Feb-06
NIST IR 7284	N/A	Oct-05	N/A	Jan-06

M. SP 800-76 v2 – Ramaswamy Chandramouli "*Mouli*" (NIST). Key Points:
- Summary of changes to January 2005 Draft of SP 800-76:
  - ANSI/INCITS 378 templates replace ANSI/INCITS 381 images
  - Verification requirements have been added
  - Conformity requirements have been added
  - Performance based qualification criteria have been added
  - BioAPI has been dropped
- Fingerprints biometrics:
  - Fingerprint *template* is now mandatory biometric
  - *Flat* fingerprint imaging is specified as the main mode of image collection
  - Fingerprint images are retained by agencies. This supports regeneration of

templates, should amendment of minutiae specification make it necessary
- Facial biometrics:
  - *Acquisition* and *storage* specification for facial image is INCITS 385
  - Not applicable to PIV on-card storage
  - Appropriate for:
    - Printed image on card
    - Visual check at card issuance and re-issuance
    - Automated face recognition applications where needed
  - Compression ratio relaxed to 15:1, suitable for server-side storage
- New CBEFF Patron Format, derived from Patron Format A, to be established
- Verification Requirements
  - Sensor meets EFTS/F equivalent specifications
  - Image output support required for evaluation
  - Threshold calibration required for non-native PIV Card templates
- Conformance and Guidelines
  - Products must complete MINEX ’04 testing or equivalent to be conformant
  - MINEX report expected on schedule (Q1 2006)
- Issue with biometrics for Windows Login is actively being discussed. The problem is very severe for the use of the certificate at system login
- Comment period for December 2005 SP 800-76 Draft has closed
- Publication is expected within about two weeks

N. IAB Comments on SP 800-76 v2– Jim Zok (DOT). Key Points:
- SP800-76 v2 is a noticeable improvement
  - Official endorsement of the minutiae template standard vs. images
  - Improved document organization and clarity
- Further guidance is requested
  - Clear statement that SP 800-76 is the de facto PIV biometric standard
  - How templates and/or images will be accepted by a software library
  - How BioAPI will be used
  - Match-on-card implementation guidance
  - Whether single-impression rolled fingerprints can be used for on-card storage
- Other comments:
  - No specification on how to calculate the minutiae angle
  - Implicit assumption that an agency will use one vendor product only
  - Facial image interoperability and performance testing is not specified
  - Use of additional biometrics on the card is not addressed

O. IBIA Comments on SP 800-76 v2– Walter Hamilton (IBIA). Key Points:
- Based on extensive input from IBIA and SCA members, IBIA forwarded 25 comments - 5 general, 2 editorial, 17 technical – on the SP 800-76 public draft
- Key Comments:
  - §1.2 - Requested language that agencies may add alternative biometrics
  - §3.2.1 - Suggested language to permit single finger readers for re-issuance

enrollment

- §4.1 - Recommended removing physical requirements for fingerprint sensors used for PIV verification (but keep requirements for enrollment sensors)
- §4.1 - Suggested removing requirement for operational verification systems to output fingerprint images
- §7 - Suggested that certification testing include scenario testing and not restricted to algorithm-only testing
- §7.1 and §7.3.1 - Make assumption that agencies will source fingerprint products from a single supplier

The IAB Meeting was adjourned at 12:00 PM.