

West Virginia Credentialing Program

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Personal Identity Verification – Interoperability (PIV-I)



WEST VIRGINIA SMART CARD PLATFORM



x.509 Certificates
Identity
Card Authentication
Signing
Encryption



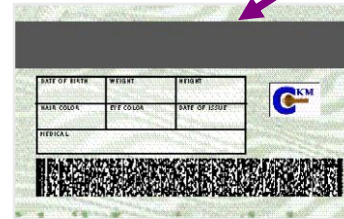
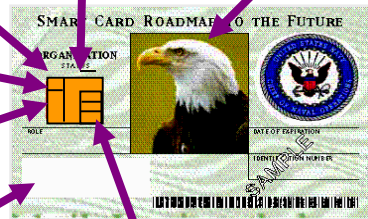
Sensitive data
Multiple
Attribute
Containers

**Digital
Photo**

**ISO 14443 Type-A
Contactless Interface**

**Magnetic Stripe
Legacy systems**

**ISO 786
Contact interface**



**Physical Integrity
Holographic Overlay**

**Enhanced
JAVA OS**

Interoperability
FIPS 140-2
FIPS 201-2

Proximity Chip
Legacy systems
125 KHz chip
40-bit number in CASI format



Biometrics
Fingerprints (2)

Verification
Match-on-Card

Multi-Factor Authentication



APPLICATIONS

- Identification
- Multi-factor Authentication
- Logical Access Control
- Physical Access Control
- Data and Email Encryption
- Digital Signing
- Attributes (Certifications/Skills/Authorizations, etc.)
- Financial Transactions
- Benefits (DHHR, etc. – {Fraud Reduction})
- Licensing (Driver's License, Hunting & Fishing, etc.)



REAL WORLD USE

- Parking garage access – Capitol Complex
- Facility door access – Capitol Complex
- ID for TSA checkpoint verification
 - Charleston Airport (CRW)
 - Washington National Airport (DCA)
- ID for bank identity verification - Local Bank
- ID for hotel validation (within WV and out of state)



IMPLEMENTATION

- Bring all installed kiosks on-line
- On-board organizations at kiosk locations
- Train personnel to use kiosks
- Enter interested agencies in enrollment site counties in system
- Begin enrollment of Emergency Response Personnel

- Add kiosks to provide geographic distribution
- Repeat above items for each new site county

- Make services available to other counties/agencies



ORGANIZATIONS ISSUED CARDS TO DATE

13 Counties (County & Local Agencies)

- 13 – Homeland Security & Emergency Management Agencies
- 13 – Communication Departments
- 8 - Law Enforcement Agencies
- 4 - Fire Departments
- 1 - Maintenance Department

5 - State Agencies

- Office of the Secretary Military Affairs and Public Safety
- State Police
- Homeland Security and Emergency Management
- Fusion Center

Agriculture

DHS/FEMA

- 1 – State Contractor (NextGenID)**



EMERGENCY RESPONSE COMMUNITY

Traditional Groups (LE, EMS, FIRE)

25,000

Goal: 75% Participation (18,750)

LE: 4500

State Police: 1000

$\$150/\text{card} \times 18,750 = \$2,812,500$



PROGRAM EXPANSION

Office of Technology

- Limited card issuance to allow testing with state systems

Department of Health & Human Resources

- Discussions about issuance to selected personnel
2 factor authentication
- Other uses ??

State Police

- Issue to members during in-service training

ORGANIZATIONAL STRUCTURE

Current

Program Office

Future Vision

State
Program Office

DHSEM

DHHR

DMV

Etc., Etc.



Type of Card

Citizen

Employment

Other ??



SIDE BY SIDE

	WV	NC
Population	1.8 Mil	9.5 Mil
Government Employees	121,000	685,000

Government Employees 121,000
40,000 State
20,000 Education
60,000 County/local



Questions??



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