

Winter Fox Interoperability Demonstration

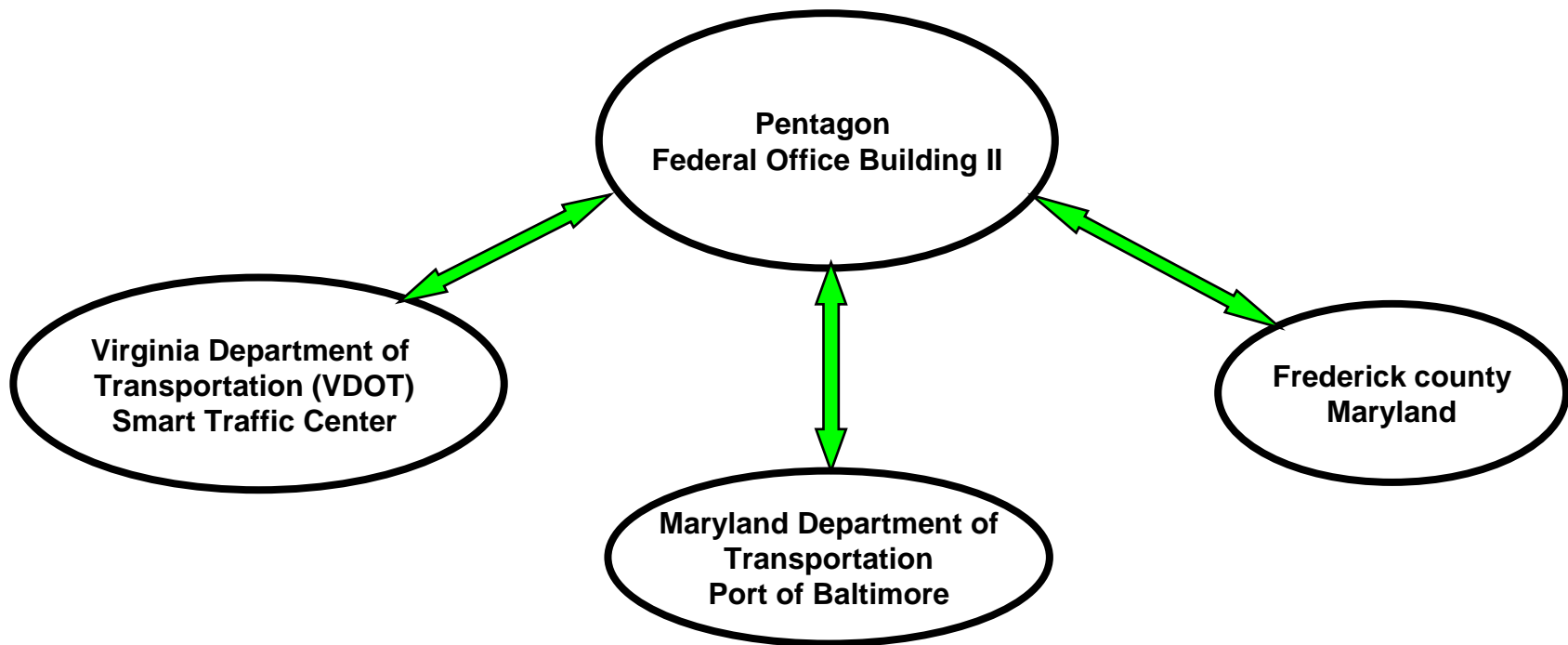
23 February 2006

Coordinated by:
Department of Homeland Security
Office of National Capital Region Coordination
Thomas J. Lockwood, Director

Hosted by:
Department of Defense
Pentagon Force Protection Agency
Robert Taylor, Director

Goal: Multi-jurisdictional Identity Trust Model

To demonstrate multi-jurisdictional identity interoperability by electronically binding personalized First Responder Authentication Cards (FRACs), that were issued from different back-end infrastructures, to authorized responder in a communication-in or out environment



Objectives and Targeted Population

Objective

To demonstrate multi-jurisdictional interoperability by validating DoD CACs or First Responder FRACs issued from different back-end infrastructures

Targeted Participation

Participation for this exercise was focused primarily on federal, state, regional, local, private sector, and public safety leadership to grasp a better understanding of a trusted and secure electronic identity trust model that provides multi-jurisdictional interoperability that can be leveraged for incident identity and emergency attribute(s) management.

Multi-Jurisdictional Recognition



PDA INFORMATION FORMAT:

***DATA
TEXT
IMAGE***



INFORMATION FEED:

FEDERAL

STATE

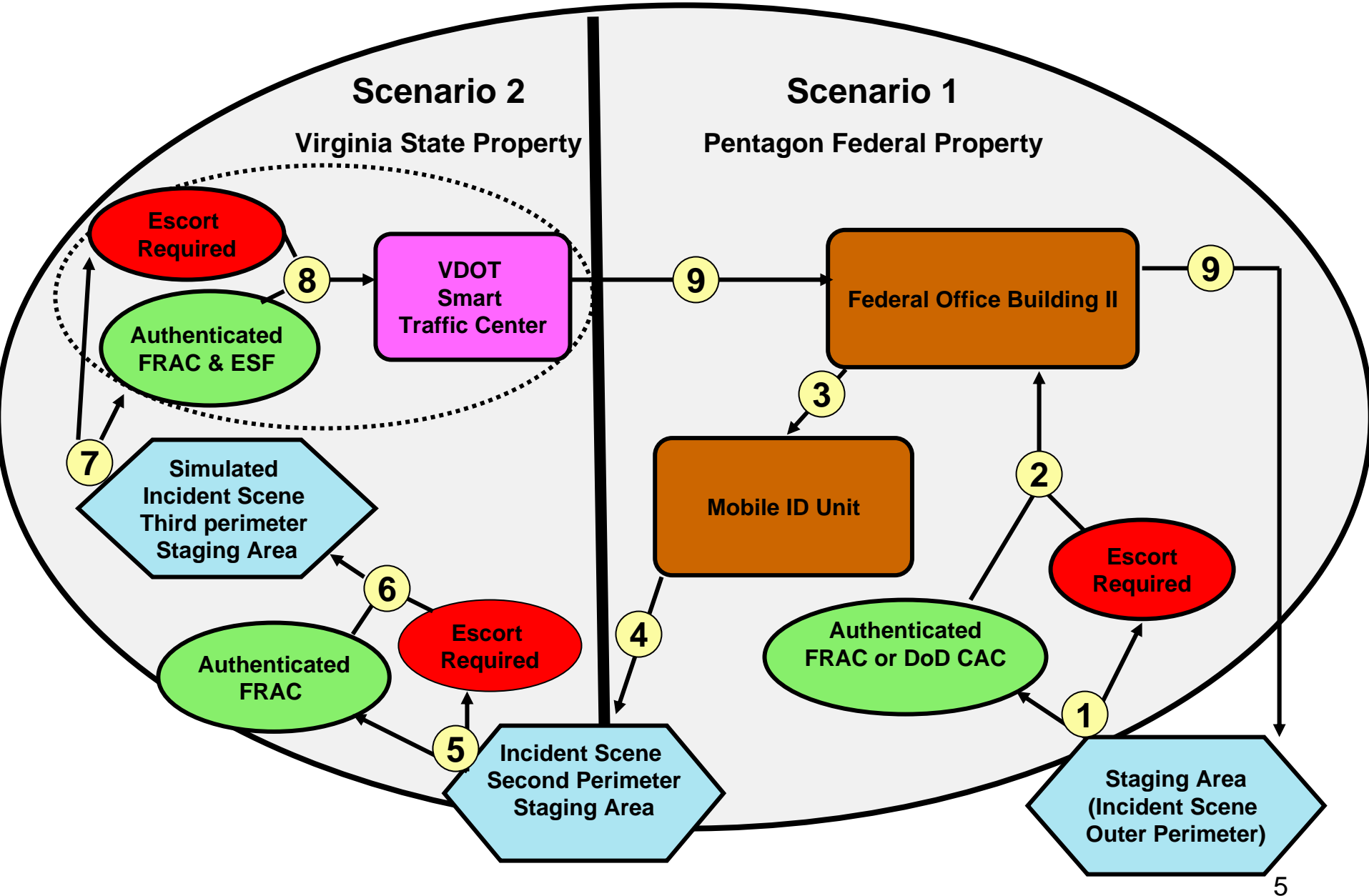
LOCAL

PRIVATE

First Responder Validation Authority
(Produced and Synchronized Nightly)



Federal / State / Perimeter Access Controls



Multi-jurisdictional Identity Management

Scenario 3

Maryland State Property

- **Dispatching Federal assistance team dispatched from a federal agency**
- 1) The Federal assistance and COOP/COG teams will cross numerous state, county and federal jurisdictions in order to reach final destinations
 - 3) Notification of arrivals will be transmitted by email (coms-in) and **SATCOM** message (coms-out) back to the sponsoring agency
 - 5) All electronic identity transactions at locations will be transmitted by email (coms-in) and **SATCOM** message (coms-out) back to the sponsoring agency

Scenario 4

Maryland County Municipal

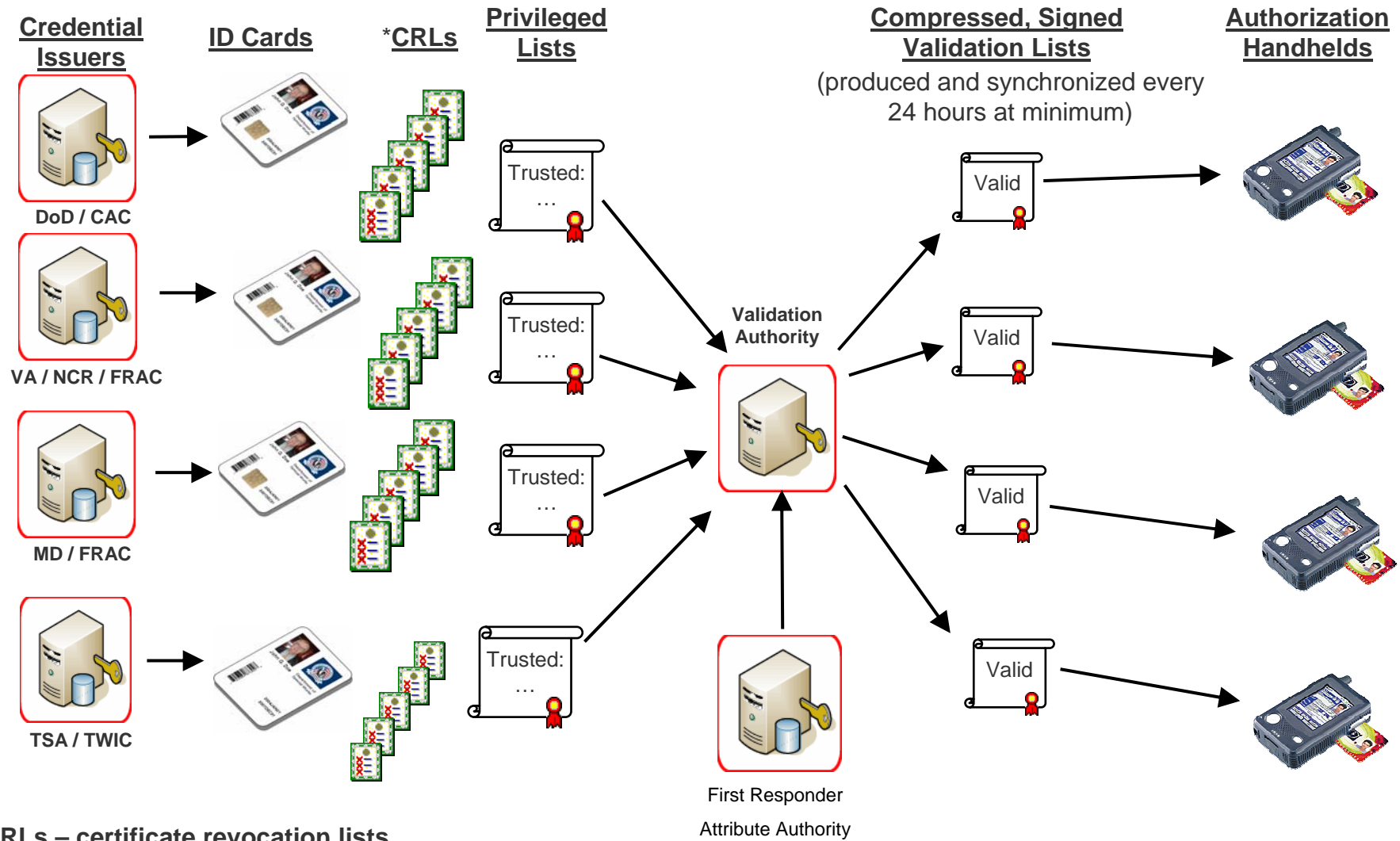
- **Dispatching emergency evacuation of COOP/COG personnel to a relocation site**
- 2) Once the teams reach their final destinations each member will check-in using their FRACs for electronic identity and PIN verification
 - 4) Upon conclusion of the demonstration all participants will electronically check-out



**Port of Baltimore
Incident Area Access Control**

**Frederick County
Maryland check-point**

PKI Interoperability



Winter Fox Data Sample

Timestamp	Cardholder Name	Card Issuer	ID Type	Summary	Operator
2/23/2006 9:38	AARON.C.PETERSON	DHS Smart Card CA-2	Smart Card	Success: Card Validation	Default Operator
2/23/2006 13:55	AARON.C.PETERSON	DHS Smart Card CA-2	Smart Card	Success: Card Validation	Default Operator
2/23/2006 9:18	Brian A May	PIVMobile CA	Smart Card	Success: Card Validation	Baltimore Operator
2/23/2006 11:27	Brian A May	PIVMobile CA	Smart Card	Success: Card Validation	Baltimore Operator
2/23/2006 10:28	BYS,JOHN,M,2ND	CT	Driver's License	Success: Driver's license scan	Baltimore Operator
2/23/2006 9:34	CHRISTOPHER.W.LANDIS	DHS Smart Card CA-2	Smart Card	Failure: PIN Verification	Default Operator
2/23/2006 9:35	CHRISTOPHER.W.LANDIS	DHS Smart Card CA-2	Smart Card	Success: Card Validation	Default Operator
2/23/2006 11:40	CHRISTOPHER.W.LANDIS	DHS Smart Card CA-2	Smart Card	Success: Card Validation	Default Operator
2/23/2006 10:24	COLOMBA.A.DANGELO	DHS Smart Card CA-2	Smart Card	Success: Card Validation	PFFPA Operator
2/23/2006 12:01	COLOMBA.A.DANGELO	DHS Smart Card CA-2	Smart Card	Success: Card Validation	PFFPA Operator
2/23/2006 11:05	DANIEL.A.PICKENS	DHS Smart Card CA-2	Smart Card	Failure: PIN Verification	PFFPA Operator
2/23/2006 11:06	DANIEL.A.PICKENS	DHS Smart Card CA-2	Smart Card	Success: Card Validation	PFFPA Operator
2/23/2006 12:06	DANIEL.A.PICKENS	DHS Smart Card CA-2	Smart Card	Success: Card Validation	PFFPA Operator
2/23/2006 11:07	HAGY,JAMES,WILEY,	MD	Driver's License	Success: Driver's license scan	Maryland Operator
2/23/2006 13:08	JAMES.E.KIRKMAN	DHS Smart Card CA-2	Smart Card	Failure: PIN Verification	PFFPA Operator
2/23/2006 13:08	JAMES.E.KIRKMAN	DHS Smart Card CA-2	Smart Card	Failure: PIN Verification	PFFPA Operator
2/23/2006 13:37	JAMES.E.KIRKMAN	DHS Smart Card CA-2	Smart Card	Success: Card Validation	Default Operator
2/23/2006 13:54	JAMES.E.KIRKMAN	DHS Smart Card CA-2	Smart Card	Failure: PIN Verification	Default Operator
2/23/2006 13:54	JAMES.E.KIRKMAN	DHS Smart Card CA-2	Smart Card	Success: Card Validation	Default Operator
2/23/2006 9:54	JEFFREY.R.ABRAHAM	DHS Smart Card CA-2	Smart Card	Success: Card Validation	Default Operator
2/23/2006 12:28	JEFFREY.R.ABRAHAM	DHS Smart Card CA-2	Smart Card	Success: Card Validation	Default Operator
2/23/2006 10:24	JOHN E MARKEY 1	PIVMobile CA	Smart Card	Success: Card Validation	Maryland Operator
2/23/2006 11:04	JOHN E MARKEY 1	PIVMobile CA	Smart Card	Success: Card Validation	Maryland Operator
2/23/2006 10:15	KING.HORACE.LEE.1064784893	DOD CLASS 3 CA-5	Smart Card	Success: Card Validation	Maryland Operator
2/23/2006 10:57	KING.HORACE.LEE.1064784893	DOD CLASS 3 CA-5	Smart Card	Success: Card Validation	Maryland Operator
2/23/2006 12:27	LEGRANDE.ROBERT	DHS Smart Card CA-2	Smart Card	Failure: PIN Verification	PFFPA Operator
2/23/2006 12:27	LEGRANDE.ROBERT	DHS Smart Card CA-2	Smart Card	Failure: PIN Verification	PFFPA Operator
2/23/2006 12:28	LEGRANDE.ROBERT	DHS Smart Card CA-2	Smart Card	Success: Card Validation	PFFPA Operator
2/23/2006 13:27	LEGRANDE.ROBERT	DHS Smart Card CA-2	Smart Card	Failure: PIN Verification	PFFPA Operator
2/23/2006 13:27	LEGRANDE.ROBERT	DHS Smart Card CA-2	Smart Card	Success: Card Validation	PFFPA Operator
2/23/2006 11:34	SCHWARTZ.EDMUND.G.JR.1042572477	DOD CLASS 3 CA-5	Smart Card	Failure: PIN Verification	Baltimore Operator
2/23/2006 11:34	SCHWARTZ.EDMUND.G.JR.1042572477	DOD CLASS 3 CA-5	Smart Card	Success: Card Validation	Baltimore Operator
2/23/2006 11:38	SCHWARTZ.EDMUND.G.JR.1042572477	DOD CLASS 3 CA-5	Smart Card	Success: Card Validation	Baltimore Operator
2/23/2006 10:53	SMITH.CHAKA.D.1071749858	DOD CLASS 3 CA-5	Smart Card	Success: Card Validation	Baltimore Operator
2/23/2006 13:57	CHAKA.D.SMITH	DHS Smart Card CA-2	Smart Card	Success: Card Validation	PFFPA Operator
2/23/2006 10:02	ROGER EWIN ROEHR	TWIC Program CA1	Smart Card	Success: Card Validation	PFFPA Operator

Winter Fox

(data sample a closer look)

Timestamp	Cardholder Name	Card Issuer	ID Type	Summary	Operator
2/23/2006 9:54	JEFFREY.R.ABRAHAM	DHS Smart Card CA-2	Smart Card	Success: Card Validation	Default Operator
2/23/2006 12:28	JEFFREY.R.ABRAHAM	DHS Smart Card CA-2	Smart Card	Success: Card Validation	Default Operator

Timestamp	Cardholder Name	Card Issuer	ID Type	Summary	Operator
2/23/2006 11:34	SCHWARTZ.EDMUND.G.JR.1042572477	DOD CLASS 3 CA-5	Smart Card	Failure: PIN Verification	Baltimore Operator
2/23/2006 11:34	SCHWARTZ.EDMUND.G.JR.1042572477	DOD CLASS 3 CA-5	Smart Card	Success: Card Validation	Baltimore Operator
2/23/2006 11:38	SCHWARTZ.EDMUND.G.JR.1042572477	DOD CLASS 3 CA-5	Smart Card	Success: Card Validation	Baltimore Operator

Timestamp	Cardholder Name	Card Issuer	ID Type	Summary	Operator
2/23/2006 10:02	ROGER EWIN ROEHR	TWIC Program CA1	Smart Card	Success: Card Validation	PFPA Operator
2/23/2006 9:39	YOUNG,CRAIG,HARRIS,	MD	Driver's License	Success: Driver's license scan	Default Operator

Winter Fox Identity Transaction Metrics

Locations:

- 285 total scans recorded:
 - 138 scans into VDOT Smart Traffic Center
 - 87 scans into Pentagon Federal Property
 - 35 scans into Baltimore Incident Area
 - 25 scans Frederick County, MD

Transactions:

- 206 Success: Card Validation
- 79 Failure: Pin Verification

Technology:

- 5 Drivers license bar code, no bind to card
- 263 FRACs (w/ digital photo) plus PIN verification
- 16 CACs (w/o photo) plus PIN verification
- 1 TWIC (w/o photo) plus PIN verification

Winter Fox Validated Proof of Concepts

Validated key capabilities:

- **A multi-jurisdictional identity trust model** at a Pentagon federal facility, Virginia State facility, Maryland State port, and Maryland County municipality
- **Routine electronic physical access** into federal and state facilities
- **Incident area first, second and third perimeter control** using electronic identity validation for incident management
- **Secure access** through a local municipality-controlled check point
- **In-transit visibility of COOP/COG human resource assets** in a communication-in and/or out environment
- **Satellite communications (SATCOM) manifest tracking** of sponsoring agency personnel to a relocation sites
- **Federal, state, and local EOC notification** and cross agency personnel visibility
- **Time keeping/reimbursement;** post-event notification

Strategic Objectives

1. **Establishment of a multi-jurisdictional identity trust model** in accordance with existing standards and technology that enables interoperability for dynamic identity and emergency attribute management
2. **Categorize all emergency response or critical infrastructure support personnel** in accordance with the National Response Plan (NRP) or National Infrastructure Protection Plan (NIPP)
3. **Integrate identity and NRP/NIPP category information into existing authoritative human resources databases/directories** for use with current technology tool sets that support the electronic proliferation of trusted and secure information for access decisions
4. **Standardize NRP/NIPP occupation sub-categories and qualifications** in accordance with national and international personnel qualification standards as appropriate
5. **Conduct exercises to integrate use with response requirements and applications development** for trusted and secure electronic incident management with accountability
6. **Proof of concept of key capabilities:** personnel accountability / physical access, incident muster list, EOC notification/cross agency personnel visibility, time keeping/reimbursement; post-event notification, enhanced COOP/COG processes

Notional PDA ID Authentication & Attribute Validation Screen Shot

1. Identity Authentication Confirmation

Unconfirmed
Incorrect Pin
Confirmed
Revoked

2. Identity Assurance Level

Basic
Medium
High

3. NIPP Sector Coordinating Council

(17 sectors of critical infrastructure both public and private)

4. NIMS ESF Category

- #1 – Transportation
- #2 – Communications
- #3 – Public Works and Engineering
- #4 – Firefighting
- #5 – Emergency Management
- #6 – Mass Care, Housing, and Human Services
- #7 – Resource Support
- #8 – Public Health and Medical Services
- #9 – Urban Search and Rescue
- #10 – Oil and Hazardous Materials Response
- #11 – Agriculture and Natural Resources
- #12 – Energy
- #13 – Public Safety and Security
- #14 – Long-Term Community Recovery and Mitigation
- #15 – External Affairs



5. Attribute Nomenclature

Qualification – (e.g., COOP, COG, State Trooper, doctor, utility, water)
Certification – (e.g., Skill, EMT, Firefighter, SWAT)
Authorization – (e.g., Lawful Entitlement, Weapons, security investigation)
Privilege – (e.g., Official Benefits, VIP)

6. Sponsoring Agency

(store on card)

7. Jurisdiction Location

(store on card)

8. State

(store on card)

End state: Preparedness Identity Management

Incident Management:

To get the right people with the right attributes to the right places at the right times thus reducing response/recovery times and promoting restoration to pre-incident quality of life conditions

Intended benefit:

Emergency response officials will possess public-key infrastructure (PKI) identity cards that align with federal standards and enable electronic validation of identity and emergency attribute information for determining access privileges

Additional benefit:

Emergency response officials will possess PKI identity cards issued by respective sponsoring agencies in a distributed environment that can be integrated into standards-based physical and logical access systems

Questions?

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