Strategic Industry Conversation III

Doubling Down on the Unity of Effort

October 19, 2017
Border Security

Diane Sahakian, Deputy Assistant Commissioner, Acquisition and Head of Contracting Activity, U.S. Customs and Border Protection (Moderator)

Philip Miller, Deputy Executive Associate Director, Enforcement and Removal Operations, U.S. Immigration and Customs Enforcement

Colleen M Manaher, Executive Director, Planning, Program Analysis and Evaluation, Office of Field Operations, Entry/Exit Transformation, U.S. Customs and Border Protection

Benjamine Huffman, Chief, Strategic Planning and Analysis Directorate, U.S. Customs and Borders Protection

Anh Duong, Program Executive Officer, Unmanned Aerial Systems, Science and Technology Directorate
Biometric Entry-Exit Program
Washington, DC

October 19, 2017
CBP designed a backend Traveler Verification Service (TVS), that leverages existing advanced passenger information, existing photographs from OBIM and U.S. Passport Database, and is front end device agnostic. TVS will be used in Air, Land and Sea.

**HOW TVS WORKS:**

- Uses Existing Traveler Biometrics
- No New Data Requirements
- Matches One to Few Utilizing Cloud Infrastructure
- Tokenless Processing
- Integrates into Existing Airport Infrastructure

~100,000 participating passengers \[\rightarrow\] High 90 percentile of passengers have a photo available \[\rightarrow\] High 90 percentile match rate for passengers with photos

Facial recognition is the clear business choice because it integrates into existing stakeholder processes and infrastructure while capitalizing on traveler behavior.
Biometric Air Exit – Progress

• Built a robust cloud-based facial matching service to support Air, Land and Sea.

• Implemented technical demonstrations at international airports in 2017:
  • June 6 - Dulles
  • June 8 - Atlanta (equipment upgrade)
  • June 27 - Houston Intercontinental Airport
  • July 11 - Chicago
  • July 25 - Houston/Hobby
  • August 8 - Las Vegas/McCarran
  • August 22 - JFK
  • TBD - Miami

• Initiated public-private partnership projects:
  • June 12 - Jet Blue-Paperless Boarding Project- Boston
  • June 12 - Delta Auto Boarding Gate Project-JFK

• Gaining momentum with stakeholders:
  • San Francisco/San Jose
  • Los Angeles Airport
  • Royal Caribbean
  • British Airways
  • KLM Royal Dutch Airlines
  • Lufthansa

Working in partnership with the air travel industry, CBP is leading the transformation of end-to-end air travel
Biometric Air Entry – Progress

- Leverages biometric exit capabilities to transform entry processes
- Streamline traveler entry process and wait times by reducing touchpoints
- Uses facial biometrics in place of travel document
- Personalizes travel experience based upon traveler profile
- Utilizes existing traveler data
- Discontinues use of paper receipts and declarations
- Eliminates fingerprint capture from travelers with previous prints on file
- Allows CBP Officers to focus on admissibility vs. manual processes

- Planned implementation demonstrations at international airports:
  - Q1 FY 2018 - Atlanta
  - Q1 FY 2018 - Miami
  - Q1 FY 2018 – Aruba
  - Q3 FY 2018 – San Diego

Working in partnership with the air travel industry, CBP is leading the transformation of end-to-end air travel
Biometric Exit - Land Border Strategy

• Third Country National Plan
  – Target implementation in late 2017
• Deploy facial biometric exit solution for pedestrians
  – Leverage TVS facial biometrics for frequent pedestrian crossers
  – Integrate RFID to biometrics to expedite/improve facial matching
  – Work with GOM on biometric inbound/outbound
• Continue to innovate on land solutions
  – Vehicle at-speed facial matching
  – High Resolution Infra-red cameras
  – Expand data sharing with Mexico

Implementing feasible land solution while continue to innovate
DHS Coordination- Critical for Success

• TSA
  – Conduct a joint pilot using TVS facial matching at TSA checkpoint in October 2017
  – Coordinating long term strategy to expand capabilities

• DHS Science and Technology
  – Biometric Device Evaluations
  – Human Factors
  – Algorithm evaluation

• DHS Digital Services
  – Evaluate System Design and Architecture
  – Provides best practices for programming and development
  – Facilitates Department wide collaboration

• Office of Biometric Identity Management (OBIM)
  – Utilizing existing biometric information in IDENT
  – CBP will send in-scope photos to OBIM
  – Developing strategic requirements for HART

• CBP/DHS Privacy
  – Privacy Impact Assessments Completed for CBP Projects and Airline Led Projects
  – Working together to ensure security of PII information

Coordinating biometric entry-exit initiative across the department
Opportunities to Support Biometric Entry/Exit

• Airline’s and airport’s biometric transformations

• Innovative solutions
  • Biometric capture for vehicle at-speed
  • Self reporting
  • Traveler applications
  • Body worn cameras

• Cloud services

• Biometric matching services

We invite you to transform the travel experience with us
Colleen Manaher
Executive Director
Planning, Program Analysis and Evaluation
Office of Field Operations
U.S. Customs and Border Protection
Impedance and Denial

U.S. Border Patrol
Border Wall Program

October 19, 2017
Background

• Impedance and Denial: an operational requirement for the Border Patrol for over 25 years.
Border Wall Program 101

Secure Fence Act
2006
• Called for Construction of Barrier

Between 2010 and 2016
• Sustainment
• Breaches
• Replacement Projects

Beginning in 2007, CBP constructed approximately 654 miles of border barrier to include:
• 354 miles of pedestrian wall
• 300 miles of vehicle barrier

Ongoing Planning
• 2018 and Beyond

2006

Presidential Executive Order 13767
• CBP Stood up Wall Team
• San Diego Prototypes
• Ongoing Projects
  o San Diego
  o El Centro
  o El Paso
  o Rio Grande Valley
CBP’s Complex Border Construction

- Rio Grande Valley Sector Levee Wall
- San Diego Sector Surf Wall
- Yuma Sector “Floating Wall”
- San Diego Sector Border Infrastructure System (BIS)
CBP’s Border Barrier Toolkit

Example of steel bollard wall

Example of vehicle barrier

Example of a gate

Example of levee wall
Questions and Answers