Biometric Concepts of Operation in the Airport Environment

International Biometrics Performance Conference

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Mission

- S&T and CBP are collaborating to transform CBP operations by leveraging technologies, re-engineering current processes, and introducing new operational capabilities.

Goals

- **Air Entry**: Identify and implement technologies and enhancements to existing airport operations for inspecting and examining travelers entering the U.S.

- **Air Exit**: Identity, test, and evaluate concepts of operations and approaches to inform acquisition planning and articulate the operational and economic tradeoffs.
The Biometric Air Exit Challenge

- Confirm identity of foreign travelers departing the United States
- Accurately match arrival and departure records
- Minimize impact to travel and trade
- Improve availability of data for decision makers
- Strengthen law enforcement capabilities
- Control costs
AEER’s Approach

- Holistic, Multi-disciplinary
  - Operations Analysis
  - Stakeholder Engagement
  - Business Case Analysis
  - Technology Analysis
    - ✔ Finger
    - ✔ Iris
    - ✔ Face

- Evaluated concepts of operation (CONOPs)
  - Operational process + technology
  - Not just devices
Market and Laboratory Analyses

- **Biometric Technology Market Survey**
  - Canvassed commercially viable biometric devices
  - Completed initial device capabilities and maturity report

- **Laboratory Analysis**
  - Test infrastructure assessment
  - Data conformance assessment
  - 3rd party reporting
  - Device intra-operability
  - Device inter-operability
  - Capture conditions
  - FTA and FTP assessment
Concepts of Operation

- **Technology**
  - Modality + Capture Method

- **Process**
  - Centralized
  - Boarding Gate
  - Passenger Loading Bridge
  - Mobile
## Biometric Air Exit Roadmap

### Build Phase
- Operational Survey
- Tech Foraging
- Economic Impact
- Business Case (Initial)
- Maryland Test Facility

### Test & Evaluation Phase
- Lab Testing
- Notional Concept of Operation Development
- Scenario-based Testing

### Transition to CBP
- S&T contributions to Operational Field Trial
- S&T contribution to Business Case (Final)

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**Apex AEER Timeline**
- April 2013
- 2016...

**Air Industry Contributions**
**Biometric Industry Contributions**