



Biometric Concepts of Operation in the Airport Environment

International Biometrics Performance Conference



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Air Entry/Exit Re-engineering



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



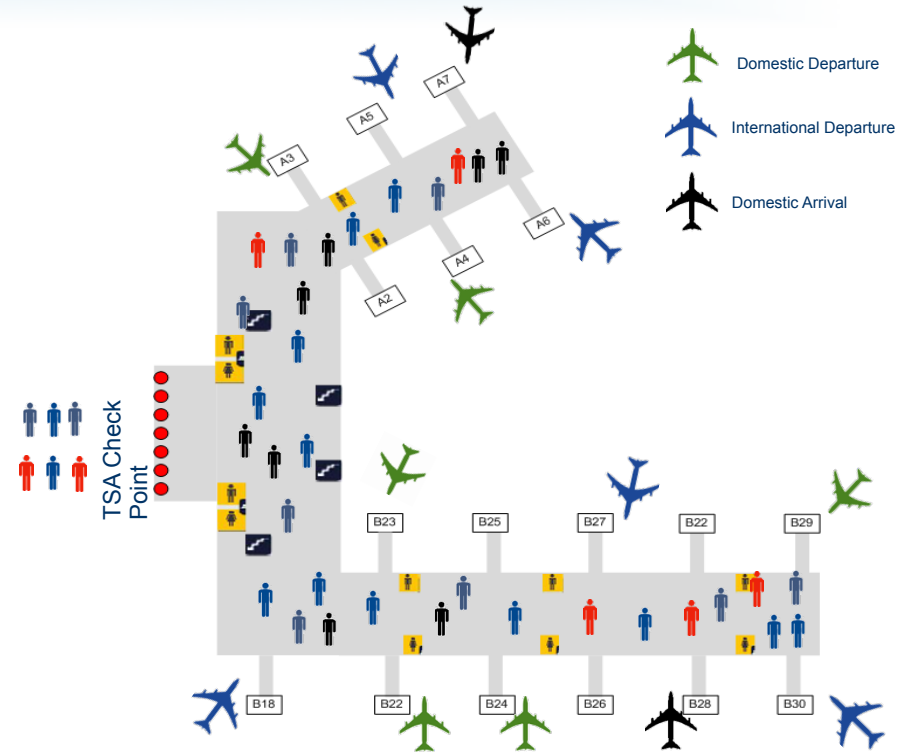
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The Biometric Air Exit Challenge



- 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



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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



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Market and Laboratory Analyses



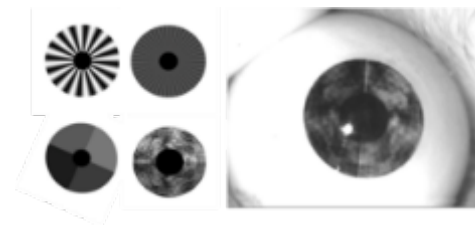
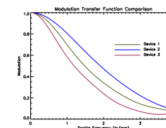
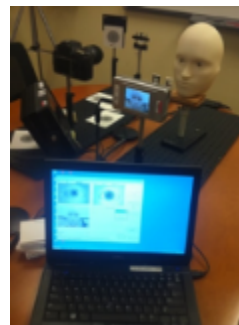
■ Biometric Technology Market Survey

- Canvassed commercially viable biometric devices
- Completed initial device capabilities and maturity report



■ Laboratory Analysis

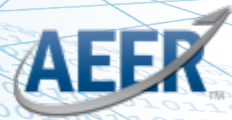
- Test infrastructure assessment
- Data conformance assessment
- 3rd party reporting
- Device intra-operability
- Device inter-operability
- Capture conditions
- FTA and FTP assessment



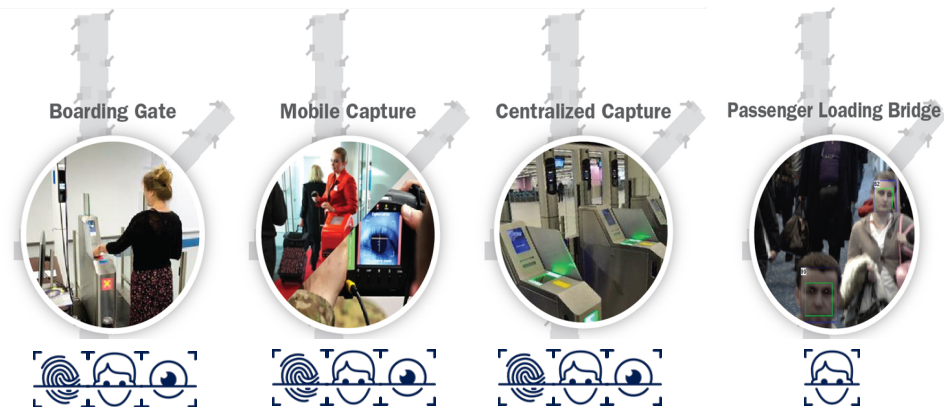
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Concepts of Operation



- Technology
 - Modality + Capture Method
- Process
 - Centralized
 - Boarding Gate
 - Passenger Loading Bridge
 - Mobile



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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) →

April 2013

Apex AEER Timeline

2016...



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→ *Air Industry Contributions*
🖐 *Biometric Industry Contributions*



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