The Role of Mobile Biometrics in Public Safety Broadband Environments

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Presentation Outline

• Background & Context
• Nationwide Public Safety Broadband Network Overview
  • Current Examples of Public Safety Mobile Biometrics
    • Operational Value Driving Innovation
  • Future Considerations
Information Systems & Global Solutions

100 Years of Accelerating Tomorrow

- 60% World’s Air Traffic Managed by Our Systems
- 1M Air Force Users Use Our Secure Portal
- $600B SSA Benefits Processed Annually
- 1.5M Signal Pulses Processed in 8 Hours From Electronic Devices
- 93M Fingerprint Examinations in Less Than 6 Minutes
- 5M Citizens Protected at National Events
- 200M Census Forms Processed in 2010
- 1M Operational Messages Managed Per Day
- 2B Cyber Attacks Defended Each Month on Government Networks

SCOPE & SCALE

COMPLEX INTEGRATION

ADVANCED CYBER SECURITY

BIG DATA ANALYTICS
Nation’s 1st Public Safety Mobile Broadband Network

Independent Authority Called FirstNet Established by Law

Build “Data-First” Network to Augment Mission-Critical Voice…Converge Over Time

Legislation authorized up to $7B to build the Network

FirstNet Chartered to Extend 4G LTE coverage to 100% of the US Land Mass (includes in-building)

5.4M Potential Public Safety Users Nationwide Across 50 States, 5 Territories, and Washington, DC.

Reference: [http://www.firstnet.gov/sites/default/files/firstnet_by_the_numbers.pdf](http://www.firstnet.gov/sites/default/files/firstnet_by_the_numbers.pdf)
Maryland FiRST – Broadband Service Unit Pilot

State of Maryland Value Statement:

Collaborating with Bowie State University, Lockheed Martin, Motorola, Verizon, Prince Georges County and APCO to establish a unique program that supports the development of wireless broadband applications and security for the FirstNet public safety broadband network.

Leveraging students with heightened understanding and intimate knowledge of smart phone applications to serve as valuable resources that develop a new set of applications for use in public safety mission critical operations.

Raising the awareness of public safety technology and the needs of the first responder community.

Realizing new or modified applications for first responders and a pool of highly motivated and uniquely qualified graduates who can transition to the public or private sector and continue to develop public safety solutions.

Key Considerations:

✓ Mission Impact for First Responders
✓ End-to-End, Multi-Tiered Interoperability
✓ Security & Performance
✓ Infrastructure Re-use Potential (Cost Avoidance Options)
✓ Human-Centered Design & Engineering

Primary Output:

✓ Prioritized list of Public Safety / First Responder Needs
✓ Feasibility Analysis of Mobility-Enabled Mission Improvement
✓ Academic Rubric Aligned with APCO’s Key Attributes
✓ Mobile Application Solutions and Experimentation

Relevance to FirstNet:

✓ Diverse Federal, State and Local Stakeholder Engagement
✓ Real Scenarios, Real Data and Real 1st Responder Input
✓ Emphasis on Proactive Workforce Development & Job Preparedness

*Reference: State of Oregon FirstNet By The Numbers
Measuring the Value of Public Safety Biometrics

- Public Safety App Foundation
  - Security
  - Operability
  - User Experience
  - E911
  - User Support

- Expanding the User Environment
  - First Responders & Public Safety
  - Support from Secondary Users
  - General Public Benefiting from Both
A Few Examples of Public Safety Use Cases

- Broad Application to Federal, State and Local Agencies:
  - Preventing Foreign & Domestic Threats from Entering the U.S.
  - Enabling Trusted and Assured Travel and Trade Amongst International Partners
  - Reduce Domestic Terrorism and Organized Criminal Activity
  - Federal, State & Local Fingerprint Identification for Criminal Investigation
  - Tracking of Incident Evidence Through “Chain of Custody”
Future Considerations

- Transition from “PC-centric” to “Mobility-Centric” Broadband Biometrics
- Improve and Advance the Current State of Practice for Collection, Processing & Accuracy
- Best Practices & Standards Driving Multi-Modal, Multi-Jurisdictional Information Sharing