Denying the Enemy Anonymity: The Road Ahead

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Current Uses

**Tactical Use**
- Entry Control
  - Bases
  - Cities
- Detention Operations
- Check point operations
- Identification
  - Payments
  - Iraqi Army, Police
- Intel Exploitation
  - Forensics
- Part of the Screening and Vetting process
  - Local hires
  - Iraqi Army and Police Screening

**Non- Tactical**
- Entry Control
- CAC Cards
Future Needs

• What does tomorrow hold?
  – Expansion- More uses of the database
  – Further Integration with other systems
    • Humanitarian Assistance
    • Disaster Relief
    • Reconstruction
    • Virtual gated communities
    • Medical Cap
  – Expanded forensics use
    • Touchless collection
    • Onsite matching and targeting
Functional Device Requirements

• Enrollment Device
  – Admit/ Do not Admit
  – Paid/Not Paid
  – Provided food/ Needs food
  – Detain/ Do not detain

• Iris Screening Device
Austere Military Requirements

- Fast (used in bad guy country, don’t want to wait)
- Rugged (Operate in harsh environment or easily and cheaply replaceable)
- Small and lightweight (Nano or cell phone, fit in the Cargo pocket)
-Disconnected Operations
  - No comm to mother ship
- Able to easily zeroize it
Human Interface

- Iris scanning in various light conditions
  - Indoors and outdoors, Bright sunshine, cloudy days, overcast
- Blackberry type keyboard for contextual data
- Allow use of COTS external keyboard for data entry
- 10 print scanner (vice single finger)
- GPS time stamp capable
Interface Requirements

• Plug and Play type interface (Apple IPOD)
• Industry standard interface
  – USB, Firewire, Cat 5 SD Card,
• Access external media devices through USB port
• Wireless capable
  – Able to switch off
• Nice to haves:
  – Easily configurable to support a specific mission (base access, humanitarian support, SASO, Detention operations)
Power Requirements

- Continuously operate on battery
  - ISD 12 hours goal 3 hours min
  - Enroll Dev: 8 hours goals 4 hours min
- Operate on and recharge from multiple power sources
  - 110V to 220V AC
  - Civilian vehicle DC
  - Military vehicle 24V DC
- Auto power off after user defined time limit
Storage Requirement

- Lots of Memory
  - Comms goes down war does not stop
  - Hold all the biometrics needed for mission at hand 1-2 million records or a subset of full record

- Enrollment Device:
  - 2 mil records
  - 1.5 mil records

- Iris Screening Device:
  - 2 mil records
  - 250k records min
Take Aways

• Small
• Easy Interface
• Interoperable
• Ideas with solutions
Questions?