

# Expeditionary Biometrics Capability

## Brief for Biometrics Consortium

Mr. John Boyd  
OPNAV N867  
20 Sept 2006

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## *Purpose*

- Describe expeditionary biometric capability
- Provide information brief on the proposed program to provide an expeditionary biometric capability in the maritime domain.
- Discuss the importance and path to build interoperability at the data level
  - The warfighter requires a Biometric Data Model.

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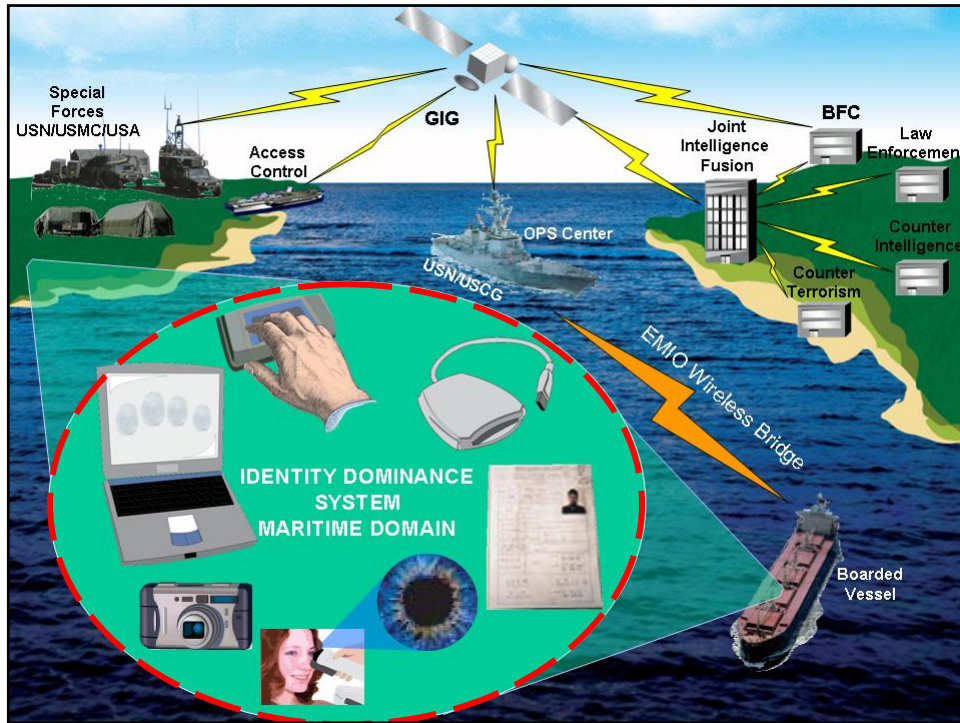
## *What Biometric Capabilities?*

- **Expeditionary biometric capability**
  - Fix persons' identity using multimodal biometric system in austere environments
  - Provide information necessary to execute decisions (e.g., detain / release a person encountered in an operation)
  - Control access to vessels / spaces using smart cards and biometrics in austere environments
  - Make rapid and routine the recall, update and sharing of information on an individual as necessary

## *Why a biometrics program?*

- **Current systems are insufficient to execute the mission.**





## Biometrics & Communications

- **Considerations from the warfighters' perspective**
  - What is delivered to Whom, When, under what Conditions and to what Standards
  - Analysis needed to execute informed battlespace decisions
  
- **Consider the communications concerns**

## *Equipment Currently Fielded for Navy units*

- **Navy purchased 46 kits to outfit deployers**
  - Cross Match ID442R & live-scan software
  - Panasonic Toughbook CF-18
  - Digital camera
  - Required connecting cables



## *What is Identity Dominance?*

- **Identity Dominance:** operational capability to achieve an advantage over an adversary by denying him the ability to mask his identity or to counter our biometric technologies and processes. This is accomplished through:
  - Enabling technologies and processes to establish the true identity of an individual and to establish a knowledge base for that identity.
  - Denying an adversary the ability to discover our protected assets.
- **Military effectiveness in linking:**
  - An enemy combatant, detainee, or similar person of interest to
  - Previously used identities / participation in terrorist or criminal activities
- **Crucial for asymmetric warfare**
  - Effective for linking, tracking, and trending “person of interest” information and identifying patterns

## *What is the Biometric Program?*

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- **Program of record to provide an expeditionary, task-oriented biometric capability:**
  - Efficiently enroll, verify and identify individuals encountered in the conduct of operations
  - Rapidly compare identity information to watchlists
  - Rapidly record various types of information related (linked) to the individual
  - Rapidly recall, update and manage the 'trusted' information linked to an individual
  - Share information - policy, guidance and law
  - Operate in austere environments

## *Outcomes?*

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- **Improve Security Operations**
  - Speed hold, detain, release decisions regarding suspicious individuals
  - Simplify, speed and standardize the collection, sharing and use of individual data for threat analysis
  - Speed vessel access decisions and automate access and departure information on an individual
  - Integrate at-sea, port and ashore operations
- **Enhance Expeditionary Operations**
  - Humanitarian Assistance
  - Security Assistance and Stability Operations
  - Small Scale Contingencies

## *Span of the Solution Space*

- Provide the capabilities in the right time and place with the right fidelity to the warfighter, extend beyond the “black box”!
  - Communications domain
    - Need faster comms between host ship and intel personnel
  - Threat Analysis domain
    - Need more rapid processing of identity information at reachback facilities
  - Institutional domain
    - Need to develop and sustain material, doctrinal, training, and organizational solutions

## *Why develop a program?*

- Interoperability / compliance with the Net Ready Key Performance Parameters
- Sustainment
- Configuration management
- Testing - full VV&A – to ensure it meets the warfighters’ needs
- Formal training
  - Embedded
  - School house
  - Web-based

## *Program Summary*

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### ➤ **Spiral 1**

- Fingerprint collection
- Iris collection
- Mug shot collection
- Remote and local identification operations
- Improved tailored output support to a broad array of print media and badge making devices
- Interoperable system that excels in austere environments.
- Projected fielding - 2008

## *Program Summary (cont)*

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### ➤ **Spiral 2**

- Hand geometry, hand scans, palm print collection
- Long range and moving person iris collection
- Operate across security domains and in classified environments

### ➤ **Spiral 3 provides**

- Integration of simultaneous bimodal collection capabilities
- Speaker recognition collection
- Nuclear DNA identity collection

## *Program Summary (cont)*

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- **Documentation completed formal Navy staffing**
- **Projected Joint Staffing October '06**

## *Communications Support*

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- **Increased file size and rate of submission will affect the required communications bandwidth to support identification operations.**

## *Intelligence Support*

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- **Intelligence supportability**
  - Capability development document articulates needs
- **Warfighters need to leverage the information in intelligence databases to**
  - Prosecute terrorists
  - Increase the effectiveness of force protection measures.

## *Intelligence Support (cont)*

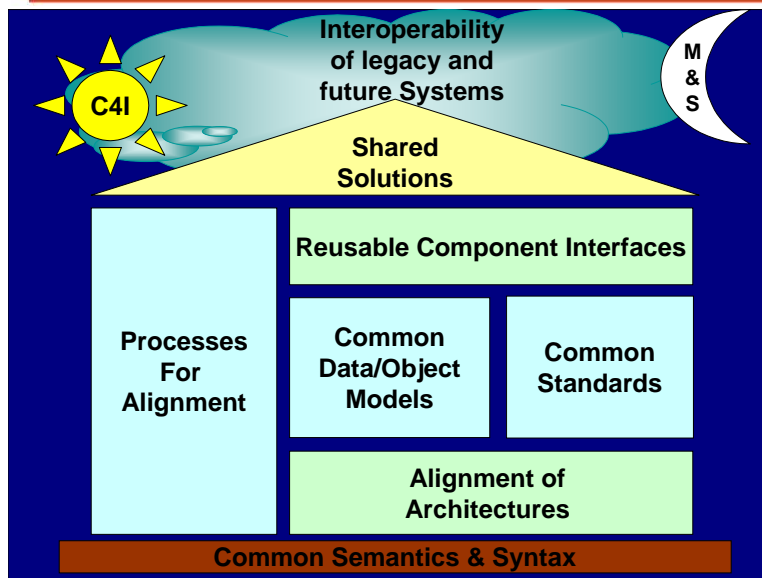
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- **Resources**
  - Provide interoperable databases for verification, identification, intelligence operations
- **Analysis**
  - Enroll, verify, and identify personnel
  - Compare to watch lists
    - Terrorist
    - Criminal
  - Analyze biometric and contextual information for patterns and other intelligence

## Net-Centric Operation Issues

- **Interoperability & Data Sharing**
  - Among DoD systems
  - Across US government
  - With allies & coalition forces
  
- **Net Ready Key Performance Parameter**
  
- **Data model**
  - Key to building interoperability at the data level
  - Leverage the work from other data models

## Building Interoperability



## *Why a Common Data Model?*

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- **Enables Data Interoperability & Re-use**
- **Facilitates Interoperability**
- **Consistent with DoD Net-centric Data Strategy**

## *Two-pronged Approach*

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- **Common Standards**
  - Shared Data Formats and Standards
  - Specified at the DoD level
- **Common Data / Object Models**
  - Orchestrated at the Community of Interest Level
  - Shared Naming Conventions, Content, and Reference Data

## *Biometric Program Path Forward*

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- **Adjudication of formal Navy comments**
  - Week of 11 Sept
  
- **Resource & Requirements Review Board**
  - Waiting for review date (est October)
  
- **Next step - Joint Staffing**
  - Staff and adjudicate comments into Fall '06
  - Initial Operational Capability – 2008

## *Takeaways*

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- **Formal biometrics program to deliver expeditionary biometric capability is being established**
  - Navy is currently the lead
  
- **The warfighter requires interoperable systems**
  - Build interoperability at the data level
  - Build a Biometrics Data Model - comprises a key part of the strategy toward interoperability
  - The biometrics program contains elements of a Biometrics Data Model
  - Leverage the work in the other data models

## *OPNAV N867 Contact Information*

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- **John Boyd (Project Manager)**
  - (703) 692-4618
  - john.m.boyd@navy.mil
  
- **LCDR Kevin Gillam  
(AT/FP Afloat Action Officer)**
  - (703) 692-4622
  - kevin.gillam@navy.mil
  
- **Erin Stewart (Analyst)**
  - (703) 695-2079
  - erin.stewart@navy.mil

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## **Backup Information**

## Identity Dominance System - MD

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