



Navy Biometrics Program Overview

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Introduction

The Navy's Biometrics Program is centered around six focus areas, all working together with the common goal to bring biometrics to the operational Navy and Marine Corps Enterprise.

- Biometrics Management Office (BMO)
- Voice Biometrics
- Biometrics Assurance
- Tactical Integration
- Operational Implementations
- Test and Evaluation

Focus Area

Biometrics Management Office

- SPAWAR Assigned to Execute Biometrics Program in DoN
- Established Navy BMO Representation in August 2000
- Proponent for Navy Biometrics Interests within the BMO
 - Focal Point for Initiatives, Support, Information and Awareness
 - Respond to Requests for Biometrics Assistance
 - Support and Contribute to DoD, BMO and Industry Working Groups
 - Provide Input to BMO Strategy and Vision
 - Establish and Maintain Dialog with Navy Stakeholders
- Support Provided by BAH McLean
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Focus Area Voice Biometrics

- Apply Voice Biometrics as a Means to Provide Reliable and User-Friendly Speaker Authentication for Use in Unique Situations
- Applications of Interest Include Remote Authentication; Nuclear, Biological and Chemical protective gear; and Logical Access Control



1. Remote Biometrics

The speaker and information source are not co-located



2. NBC Applications

Other biometrics cannot be used



3. Access Control

A fast (2 sec) and reliable method

Focus Area

Voice Biometrics (Continued)

- Application of COTS Voice Biometric Devices
 - Supplemented with Noise Canceling Preprocessors
 - Evaluated Against Military Noise Environments
 - Tested over ISDN Channels
 - Extend to Tactical Terminals Including SINCGARS and ANDVT
- Develop Voice Biometric Devices and Techniques for Unique Military Specific Applications
 - MOPP-4 Gear
- Evaluation of Prototype Devices in Fleet Environments Planned in Coming Months
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Focus Area

Biometrics Assurance

- Evaluate Security Issues related to Biometric Technologies and Establish Security Requirements for Development and Evaluation of Biometric Products for Navy Use
 - Type Accreditation Support for Specific Biometric Products
 - Assess Biometric System Risk for Navy Environments and Systems
- Provide Navy Security Engineering Support to the BMO
 - Co-Authored Biometric Protection Profile for Medium Robustness Environments
 - Coordinate with NIAP Protection Profile Review Board
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Focus Area Tactical Integration

- Determine the Practical Benefits and Costs of Deploying Biometrics in the Fleet and Demonstrate Biometric Technology in a Navy Combat, Weapon or C3I System
- Systems Considered include Cooperative Engagement Capability (CEC), DD21/ACTD, Area Air Defense Commander (AADC), GCCS-M and Advanced Tomahawk Weapon Control System (ATWCS)
- ATWCS selected for Phase 2
 - Biometrically Enabled Consoles
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Focus Area

Operational Implementations

- Promote Shore-Based and Afloat Pilots at Navy and Marine Corps Activities to:
 - Introduce Biometrics to End Users
 - Measure End User Acceptance of Biometrics
 - Evaluate Performance of COTS Biometric Products
 - Develop Solutions that can be Applied Enterprise-Wide
- Recent Initiatives Include:
 - Evaluate Biometrically Enhanced Smart Cards
 - Quantify the Efficiencies and Benefits of Biometrics and Calculate the Associated Return on Investment (ROI)
 - Biometric Type Accreditation
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Navy Biometrics Pilots and Quick Looks

<u>Project</u>	<u>Access</u>	<u>Users</u>	<u>Biometric</u>	<u>Status</u>
Operational Commands				
USS CORONADO	Physical	100	Iris	Completed*
USS CORONADO	Logical	25	Fingerprint	Completed
Sub Base, San Diego	Physical	50	Hand	On Going
HMX-1	Physical	TBD	Fingerprint	FY 03
Joint Commands				
SOCOM	Physical	60	Iris	Completed*
JWAC	Logical	700	Fingerprint	On Going
JSOC	Physical	TBD	Fingerprint	FY 03
PACOM	Physical	TBD	Fingerprint	FY 03
PACOM	Logical	TBD	Fingerprint	FY 03
Shore-Based Commands				
Consolidated Brig	Physical	60	Face, Hand, Iris, Fngprnt	Completed
DESC Web Portal	Logical	Lab	Fingerprint	Completed
DCMS	Logical	70	Fingerprint	Completed
MITNOC	Physical	100	Iris	Completed*
HQ USMC	Logical	25	Fingerprint	Completed
SPAWAR, Norfolk	Physical	160	Fingerprint	On Going
DoN CIO	Physical	TBD	Fingerprint	FY 03

* Still Active

Focus Area

Test and Evaluation

- Promote Pilot Studies and Conduct Limited Test and Evaluation of Biometric Products to Determine Performance in Unique Navy Environments and to Build In-House Expertise
- Recent Initiatives Include
 - Evaluate Biometrically Enhanced Smart Cards
 - Investigate Biometric Solutions to Mitigate Internal Intrusion Threats within the Shipboard Community
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Summary

- The Navy biometrics program is a coordinated effort focused on delivering a common enterprise-wide capability
- Biometrics as an enabling technology must be integrated into the entire security construct
- Much has been accomplished to raise the visibility of biometrics in the Navy and Marine Corps
- Bottom line: The promise of biometrics is on the horizon

