

BIOMETRICS
DEPARTMENT OF DEFENSE

DoD Biometrics Fusion Center

Overview Brief

DoD Biometrics Fusion Center
Phone: (304)842-0730

<https://www.biometrics.dod.mil>
Fax: (304) 842-7831

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Purpose

To provide an overview of the DoD Biometrics Fusion Center

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BFC Location

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Agenda

- BFC Mission
- BFC Core Functions
 - Test and Evaluation
 - Research
 - Data Center
 - Contact Team
- Road Ahead

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Biometrics Fusion Center Mission

- **Operational Arm of the BMO**
 - Conducts industry and product market research
 - Serves as the eyes and ears for DoD
 - Tests and evaluates COTS/GOTS products
 - Provides implementation/integration support to DoD customers
 - Provides education and training
- **Strives to be DoD's Biometrics Center of Excellence**
 - Interacts with industry, academia, and government
 - Provides Subject Matter Expertise
 - Conducts, pilots, demos – documents lessons learned
 - Facilitates implementation of biometric technology for the warfighter

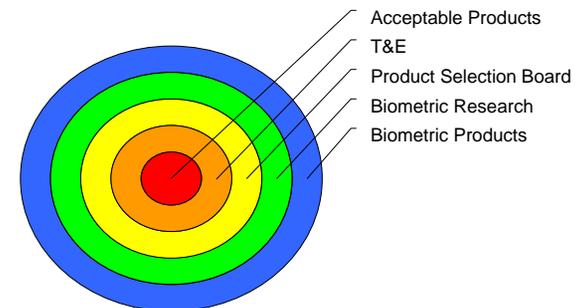
BFC Core Functions

- **Test and Evaluation**
 - Test/evaluate biometric products (COTS and GOTS)
 - Publish test results to the biometric knowledgebase for access to .mil and .gov customers
- **Conduct Market Research**
 - Biometrics products, research initiatives and DoD implementations
 - Generate reports on select implementations to provide lessons learned
 - Research and coordinate T&E activities of other organizations
- **Data Center Operations**
 - Help Desk – 24 X 7
 - Develop/manage biometric repository and test databases
 - Maintain web-based biometric knowledgebase
- **Contact Team Support**
 - Support DoD organizations in implementation of biometrics

Test & Evaluation

- **Objectives**
 - Ensure that products perform as promised and meet DoD requirements
 - Mitigate risks associated with biometric implementations
 - Security, financial risks
 - Identify gaps between what is commercially available and what DoD needs
- **Outputs**
 - Test reports published to biometric knowledgebase
- **Examples**
 - Conducted three Common Access Card (CAC) Technology Demonstrations
 - Established Test and Evaluation Work Group

T&E Process



Basic Functional Test

- **Objectives**
 - Verify Vendor Claims of product functionality
 - Assess product suitability for DoD
 - “Does it work?”
- **Outputs**
 - Test Reports published to BFC Knowledgebase
 - Basic functionality the product possesses/lacks
- **Examples**
 - 71 tests performed since Jan 2001
 - Biometric experts input to testing methodology and procedures

Controlled Environment Test

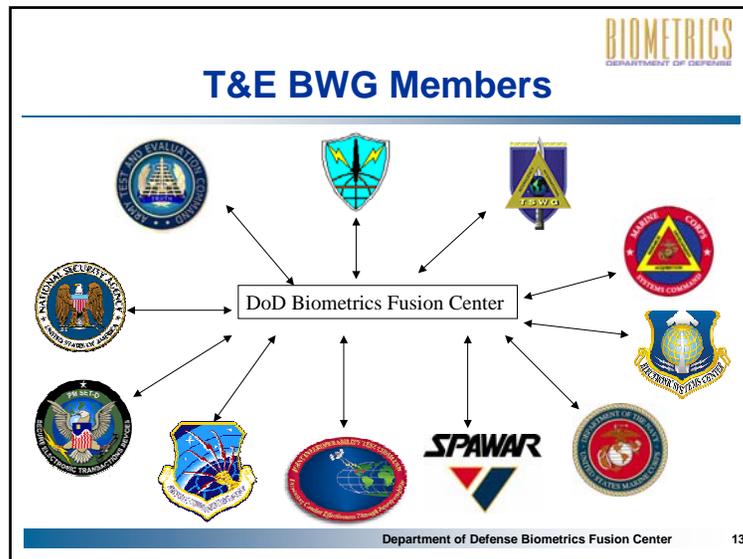
- **Objectives**
 - To evaluate durability of product in simulated field environments
 - Mitigate risks associated with product deployments to field
- **Outputs**
 - Test Reports published to BFC Knowledgebase
 - Product environmental operating ranges
- **Examples**
 - Temperature/Humidity
 - Vibration
 - Electrostatic discharge sensitivity
 - Power quality

Additional Testing

- **Objectives**
 - Live Population - Statistical Modeling
 - Vulnerability – exploit potential weaknesses
 - Sensor/Algorithm – benchmark system components
- **Outputs**
 - Test Reports published to BFC Knowledgebase
 - Performance metrics and security risks
- **Recent Accomplishments**
 - Drafting framework for population testing
 - Coordinating with NSA for vulnerability testing
 - Drafting framework for sensor and algorithm testing

T&E Biometrics Working Group

- **Objectives**
 - Coordinate test and evaluation activities across DoD
 - Share test results and lessons learned
 - Solicit customer needs for test and evaluation
- **Outputs**
 - Biometric testing standards across DoD and beyond
- **Recent Accomplishments**
 - Organized first T&E BWG meeting to be held 15-16 Apr



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- ## Research
- **Objectives**
 - Identify products for testing and track industry trends
 - Solicit requirements and priorities from services
 - Monitor RDT&E efforts, coordinate activities
 - Interface with academia to ensure best practices during testing
 - Identify DoD implementations
 - **Outputs**
 - Industry and government biometrics implementation surveys
 - Prioritized product list for conducting T&E
 - Working group research support
 - Quarterly report on research, products, implementations
 - **Examples**
 - Coordination with DoD and industry T&E organizations
 - Joint Product Selection Boards
 - Chair "Systems and Human Interface" Subgroup II of the OSTP White House Research & Development Interagency Working Group
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- ## Data Center Operations
- **Objectives**
 - Develop and host biometric databases for Test and Evaluation
 - Provide and maintain online biometric knowledgebase website
 - Research, evaluate, and demonstrate repository solutions (e.g., AFIS)
 - Help Desk
 - **Outputs**
 - DoD Biometrics Website (DBW)
 - Biometrics Collection Systems and resultant Test Database
 - **Examples**
 - Launched DBW (<http://www.biometrics.dod.mil>)
 - Evaluation of biometric collection systems and AFIS systems to support GWOT
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- ## Contact Team Support
- **Objectives**
 - Support DoD organizations in implementation and integration of biometrics
 - **Outputs**
 - DoD implementation/integration support
 - Coordination and documented lessons learned
 - **Examples**
 - General Officer Quarters, G2 Implementation Support
 - Commander U.S. Fleet Forces Command support
 - Army Material Command support
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General Officers Quarters, G2

- **Objective**
 - To provide a biometric solution for logging into a DoD classified network
 - To be used by General Officers at Fort Myers and Fort Meade
- **Outputs**
 - Recommendation of logical access device to IMCEN
- **Activities**
 - Four fingerprint logical access products under consideration
 - Sent two products to NSA for vulnerability assessment

Commander Fleet Forces Command

- **Objective**
 - Demonstrate potential of portable fingerprint system for identification and tracking of persons of interest
- **Outputs**
 - Prototype for portable fingerprint system
 - Identify High Value Targets and track Persons Of Interest
- **Activities**
 - Developing demonstration objective jointly with Navy
 - BFC procuring and testing demonstration devices
 - BFC conducting laboratory demonstration

Army Materiel Command

- **Objectives**
 - Help AMC conduct logical access biometric pilot
 - Deliver “Biometrics 101” Brief to AMC staff
- **Outputs**
 - Logical access biometric pilot recommendation
 - Desire to “push the envelope”
 - “Biometrics 101” Brief to be presented at AMC’s Information Assurance Conference (July)
- **Activities**
 - BFC visited AMC for requirements gathering
 - BFC preparing pilot proposal
 - BFC tailoring “Biometrics 101” Brief to customer

The Road Ahead

- **FY04 Priorities**
 - Support interoperability/standardization of biometric collection systems
 - Increase interagency coordination
 - Develop more thorough test procedures
 - Increase warfighter support
 - Migrate closer to warfighter
 - Support GWOT

Point of Contact Information

Mr. Samuel Cava
Director, BFC
sam.cava@dodbfc.army.
mil
Phone: (304) 842-
0730 x2223

DoD Biometrics Website
www.biometrics.dod.mil