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GTA 30-03-001

# Biometric Automated Toolset (BAT)



## Smart Card

February 2007

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## WHAT IS BAT?

*BAT is a weapons system that will:*

- **Collect** biometric and other identifying information on your enemy or potential enemy
- **Save** biometrics and information to a database
- **Search** and **share** the biometric database for potential matches

BAT is part of a biometric collection system utilizing peripheral devices for the collection of three modalities to include: fingerprints, iris scans, and facial photos.

BAT takes the collected biometric data and combines it with biographical information in order to compile both a digital dossier, referred to as a BAT Database File (BDF), and an Electronic Fingerprint Transaction (EFT) file.

## HOW IS BAT USED?

BAT is a biometric collection system and software program that consolidates a set of commercial off-the-shelf and Government off-the-shelf biometric applications or modalities designed for the Soldier conducting mobile and fixed-site security operations.

BAT also has specific applications supporting requirements of the counter-intelligence/human intelligence, military police, and military/civilian intelligence communities.

All types of units are beginning to integrate BAT into their operations and view it as another **"weapons system."**

Awareness, training, and commander emphasis are how we employ its capabilities.

- Links a person to biometrics, not just to a name.

## BAT SYSTEM COMPONENTS

BAT is a multimodal biometric system that collects and compares fingerprints, iris images, and facial photos.

BAT is used to enroll, identify, and track persons of interest as well as build digital dossiers on individuals (including interrogation reports, biographic information, relationships, and other information).

*BAT is the only fielded collection system that has an internal biometric signature searching and matching capability.*



Canon A520

The system uses a digital camera for facial recognition matching and future visual recognition. Camera is also used to capture photos of identifying marks.

## WHY BAT?

Biometric technologies are becoming the foundation of an extensive array of highly secure identification and personal verification solutions in the Global War on Terrorism.

Success with BAT comes from the relative ease of collecting good quality biometric data and then searching for a person of interest using that data.

BAT can support operations in both **fixed** (connected) or **mobile** (disconnected) configurations, enhancing a unit's mission and security.

- Connected BAT operations allow the user to obtain biometrics primarily at fixed locations with the laptop connected to all its peripherals.
- Disconnected allows for mobile/tactical operations utilizing an iris device to scan irises against stored irises in the Pier device.

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CF-73/74  
Toughbook

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Biometrics data is then saved and searched against the BAT database for possible matches and shared within the U.S. Government.



Full Face Photo

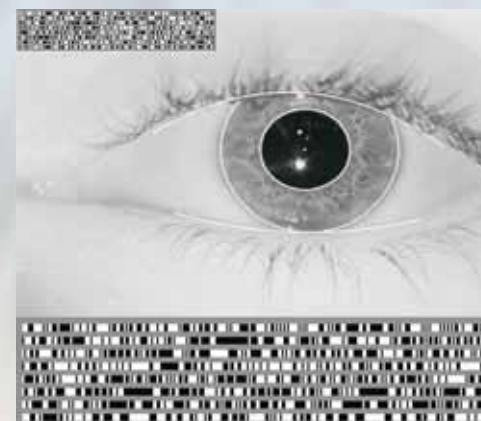


Iris Scan



Digital

- Provides identification of Third Country nationals.
- Collects other intelligence information.
- Provides accessible/searchable database.
- Allows identification at the tactical level.
- Provides information for criminal prosecution.



Crossmatch 300

BAT "plug and play" ability allows for system flexibility. This allows the system to use "flat" or "rolled" fingerprint collection devices.



Pier 2.3

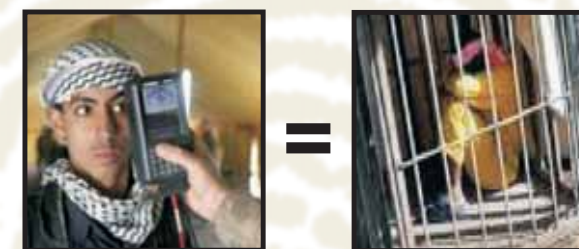
Iris collection is accomplished through connected or disconnected collection devices.



CF-73/74

The Panasonic Toughbook CF-73/74 laptop is used for biometric collection processing and matching.

The person of interest must have already been enrolled in BAT from a previous event in order to search/match against the database.





**“Biometrics will be Decisive for the Long War Ahead...”**

**GEN John Abizaid  
CDR, USCENTCOM  
March 2006**

## BAT SUPPORTS

- Force Protection
  - Base Access
  - Local Hire Screening
- Detainee Operations
- Special Operations
- Intelligence/Counterintelligence Screening
- IED Forensic Operations
  - Weapons Caches
  - Unexploded Ordinance
- Border Control Operations
- Civil/Military Operations
  - Medical/Dental
  - Population Census
  - Population Management and Control
  - Voter Registration
  - Finance

## WHAT ARE BIOMETRICS ?

Biometrics are measurable physical and/or behavioral characteristics that establish and verify an individual's identity.

**“Identity Dominance.”** Biometrics provide 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.

Soldiers need to know **who to detain or release**, and biometrics provides this capability.

It is a key **combat multiplier** that facilitates intelligence collection and targeting on individuals.

The biometric process (collecting, storing, matching, and exploitation analysis) allows us to **find, fix, track, target, and act** on specific individuals hiding within the general population.

## TYPES OF BIOMETRICS

- Physiological
  - Iris
  - Fingerprint (including nail)
  - Face (including earlobe, lips)
  - DNA
  - Hand (including knuckle, palm, vascular)
  - Voice
  - Odor (including sweat pore)
- Behavioral
  - Signature
  - Keystroke
  - Voice
  - Gait (walk)



## HOW DOES BIOMETRICS SUPPORT YOUR MISSION?

When the user enters biometric data into the BAT system, it can confirm a person of interest's identity by allowing the system to perform a search against a local, theater-specific, or national database.

Remember, paper documents and identification cards can easily be altered, but biometrics are unique to each individual.

When you are on patrol, conducting a raid, detaining a person of interest, or screening a local national who wants a job, how will you know for certain that person in front of you is the person they claim to be? The answer is biometrics.

The ability to use biometrics greatly enhances mission accomplishment by positively identifying persons of interest, insurgents, terrorists, and others who would do harm to our forces and facilities.

For more information on Biometrics or any other great products, please visit the CALL Web site at:

<http://call.army.mil>

<https://call.army.smil.mil>



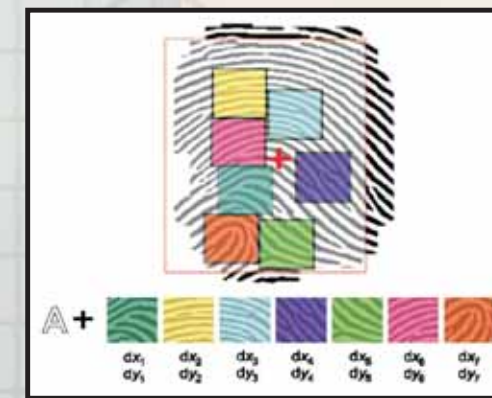
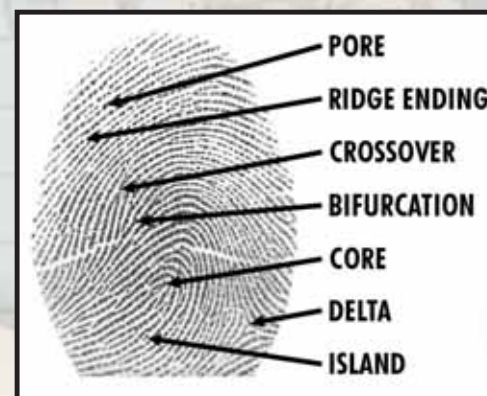
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- Tactical Operations
  - Mounted/Dismounted Patrols
  - Raids
  - Cordon and Search/Knock
  - Checkpoints
- Battle Staff Planning and Battle Tracking
  - Targeting
- Maritime Interdiction



No longer can individuals claim one identity while secretly conducting terrorist activities using an alias.

Biometric collection operations will identify and/or verify an individual's identity. The information gathered during these operations is processed and compared to other biometric information, and the resulting **intelligence information** is provided back to the Soldier conducting the operation.



The ability to accurately identify an individual is a critical component of force protection and could save your life and the lives of fellow Soldiers.

The ability to collect biometrics on persons of interest may identify future threats to our Nation.

