# Department of Homeland Security

## Biometrics Overview

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**US-VISIT IDENT Program Manager**


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# Importance of Biometric Standards in Post 9/11 Environment

- Dramatic Increase in Utilization of Biometric Data
  - US-VISIT Registration and Watchlist
  - Enforcement
  - e-Passport
  - Registered Traveler Programs
- Increased Sharing of Data Between Applications and Agencies
- Increased Civil Submissions
- Deployment of Mobile, Rapid Identification Systems
- New Technologies
  - "Slap" Scanners
  - "Fast Scan"
- Improved Algorithms and Analysis
  - NIST FpVTE, SDK Tests, SlapSeg 04

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# DHS Biometrics Applications

- **Biometrics Study Group Chartered to Assess DHS Use of Biometrics**
- **Identified Over 60 Biometrics Initiatives Across 10 DHS Organizations**
- **Provided Recommendations for Developing Coordinated DHS Approach**

Key Recommendations/Strategy

**Common standards, unified processes, one identity** should characterize the Department's biometrics strategy.

A **common set of standards** will enable greatly enhanced interoperability among systems and processes, increased coordination among stakeholders, and more targeted research and development.

**Unified processes** will enable the Department to realize greater efficiencies and cost savings through the consolidation of like activities, and will facilitate the sharing of knowledge and resources.

Establishing and confirming **one identity** for each individual that crosses all business processes across the Department will greatly improve the Department's ability to perform its mission.

# DHS Biometrics

**Department of Homeland Security**

**Management**

**Chief Information Officer**

- DHS Smart Card
- Employee ID Card (PIV)

**U.S. Coast Guard**

- Common Access Card
- Investigative Case Management
- Investigative Credentialing
- Int'l Seafarers ID Card
- Pilotage ID Card
- Mariners Admin Card
- Mobile IDENT
- Merchant mariners Card
- TWICS
- Helath Record DNA

**Border and Transportation Security**

**U.S. Citizenship & Immigration Services**

- Application Support Centers
- Asylum
- Biometric Storage System
- Integrated Card Production
- Image Storage 7 retrieval
- Refugee

**U.S. Secret Service**

- AFIS

**Immigration and Customs Enforcement**

- AFIX Tracker
- Detention & Removal
- ENFORCE
- Federal air Marshall
- Federal Protective Service
- Forensic document Lab
- IDENT
- IDENT/IAFIS
- NSEERS

**US-VISIT**

- E-Passport
- IDENT

**Customs and Border Patrol**

- Airport Security
- Biometric Verification System
- Bonded Warehouse
- Carriers License
- Centralized Exam Station
- Credentialing
- Foreign Trade Zone
- Global Enrollment System
- INSPASS
- NEXUS
- SENTRI
- TECS

**Transportation Security Agency**

- Airport Access Control
- Alien flight Student
- Armed LEO
- Credentialing
- HazMat Driver
- MD3 Workers
- Registered Travler
- TWIC

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# DHS Utilization of ANSI/NIST (EFTS) Fingerprint Standard

***Criminal: >2.4M IAFIS EFTS Transactions/Yr***

**ENFORCE/IDENT - 10-Print Used to Simultaneously search & enroll into IAFIS and IDENT**

***Civilian: >3M IAFIS EFTS Transactions/Yr***

**Criminal Background Checks of IAFIS**

- **TSA – Credentialing Programs Such As HazMat Driver, Foreign Flight Student, Screeners, etc.**
- **CIS – Applicants for DHS Benefits**
- **CBP – International Registered Travelers, Truckers (FAST)**
- **DHS – Employee Criminal Background Checks**
- **US-VISIT - Uses EFTS format for transmission of 2-P EXIT Transactions**

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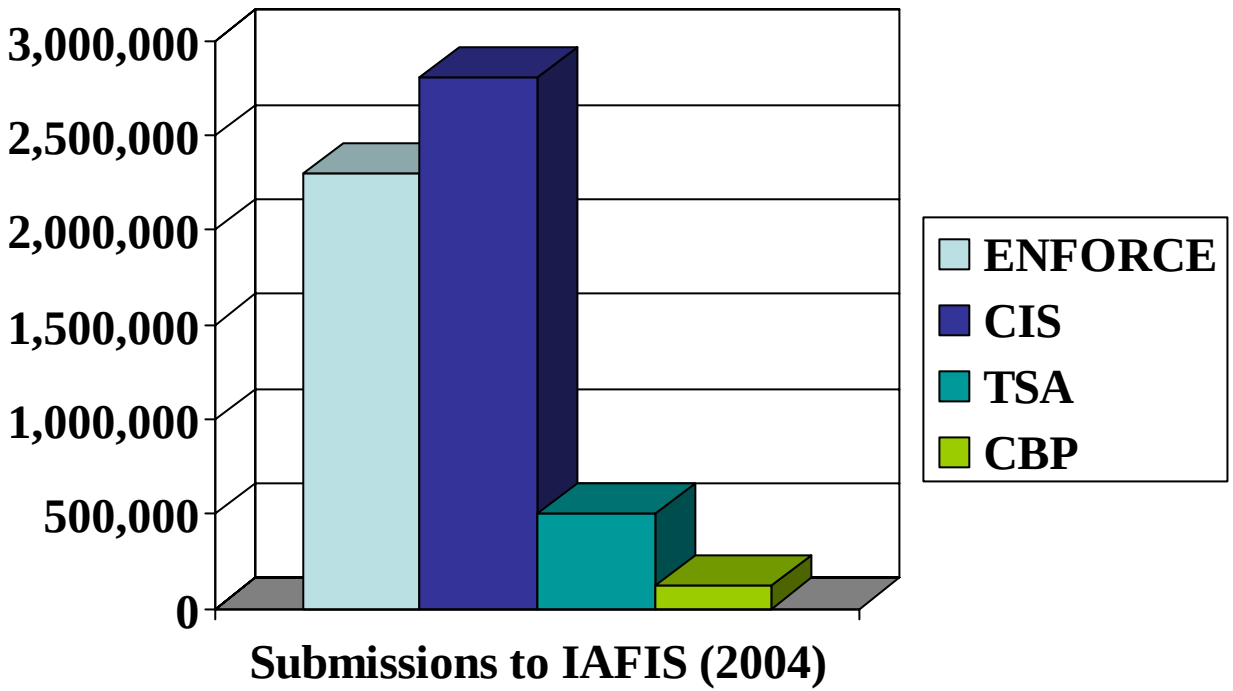
# DHS Utilization of ANSI/NIST Fingerprint Standard

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# DHS Utilization of ANSI/NIST Fingerprint Standard

## *External Receipt of ANSI/NIST (EFTS) Records*

- FBI IAFIS
  - Wanted (Daily Updates) (>500K)
  - Terrorists (>10K)
  - Aliens with Criminal History (310,000)
  - Sexual Registrants (13,000)
- California Department of Justice (10,128)
- Los Angeles County (33,449)
- Interpol (1,699)
- Department of Defense (85,486)

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# DHS IDENT Overview

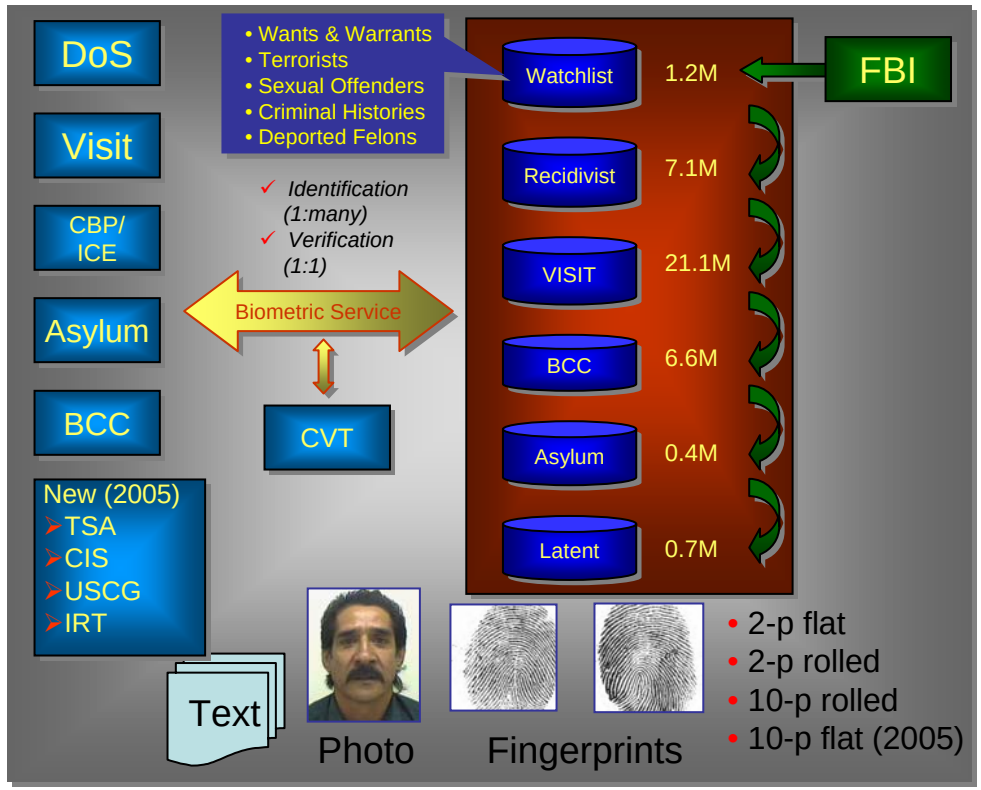
***IDENT*: Biometric processing system for rapid identification and verification utilizing fingerprints**

***Civilian***

*Highlights*

- **35 Million People (FINS)**
- **45 Million Transactions (Encounters) Processed**
- **125,000 Transactions/Day**
- **Over 9 Million Identifications**
- **Over 15,000 Wanted Criminals Identified (Including DC Snipers)**
- **NIST Certified Accuracy***
- **Matcher Power of 50 Million Matches/Sec**
- **Inputs From Over:**
  - **15,000 Users**
  - **5,000 Clients**
  - **180 Countries**
- **Automated Synchronization with FBI IAFIS**

***ENFORCEMENT***

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*96.7% TAR, 0.01% FAR

# US-VISIT: Continuum of Security Measures – Current Status

## Pre-entry:

- **More than 211 Department of State visa-issuing posts collect biographic and biometric data**

Process:

- **Visitors place the left, then the right index finger on the fingerscanner**
- **Photograph is scanned into the system**
- **Fingerscans are checked against watchlists and are linked to the travel document**
- **Travel document is not issued until biometrics are verified**

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# US-VISIT: A Continuum of Security Measures – Current Status

## Entry:

Digital fingerscans are checked against a database of known and suspected terrorists and criminals to determine the person applying for entry into the U.S. is the same person issued the visa.

Process:

- Visitors place the left, then the right index finger on the fingerscanner
- A digital photograph is taken

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# US-VISIT: A Continuum of Security Measures

Status Management:

- Should the traveler seek to adjust status or extend his/her stay, US-VISIT would be updated with any modifications to the individual's status.
- Arrival and departure records are reconciled, and any inconsistency allows US-VISIT to determine when a visitor has overstayed.

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# US-VISIT: Continuum of Security Measures – Exit

## Exit:

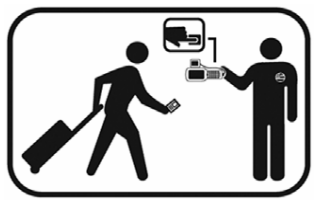
In August 2004, the exit pilot program was expanded to various airports and seaports.

<u>Visitors may experience the following:</u>

1. A self-service exit station, supported by a contracted US-VISIT Workstation Attendant (WSA).

or

2. A mobile device operated at the gate area by a WSA.



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# US-VISIT: A Continuum of Security Measures – Exit

or

3. A self-service exit station and a WSA who will confirm the visitor's receipt at the gate of departure.

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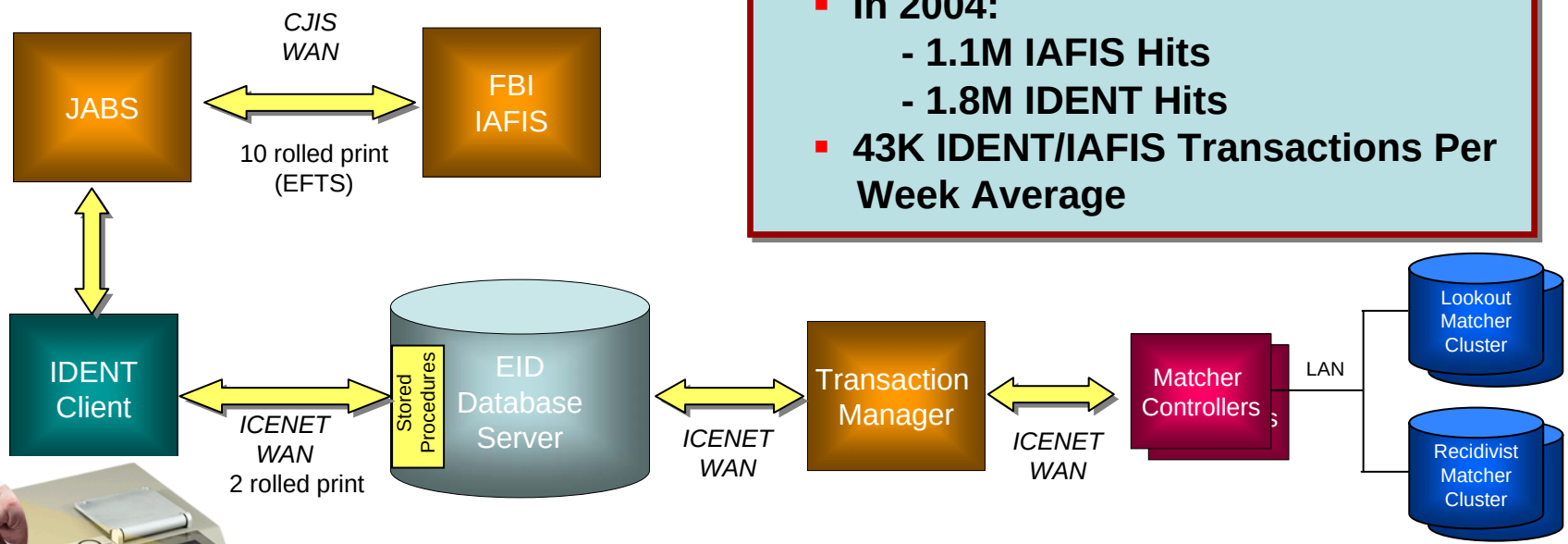
# ENFORCE/IDENT

***Parallel 10-P, 2-P Processing***

- **Deployed at:**
  - **113 Border Patrol Stations**
  - **103 POEs (All by 8/2005)**
  - **31 District Offices**
- **In 2004:**
  - **1.1M IAFIS Hits**
  - **1.8M IDENT Hits**
- **43K IDENT/IAFIS Transactions Per Week Average**



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# ENFORCE/IDENT

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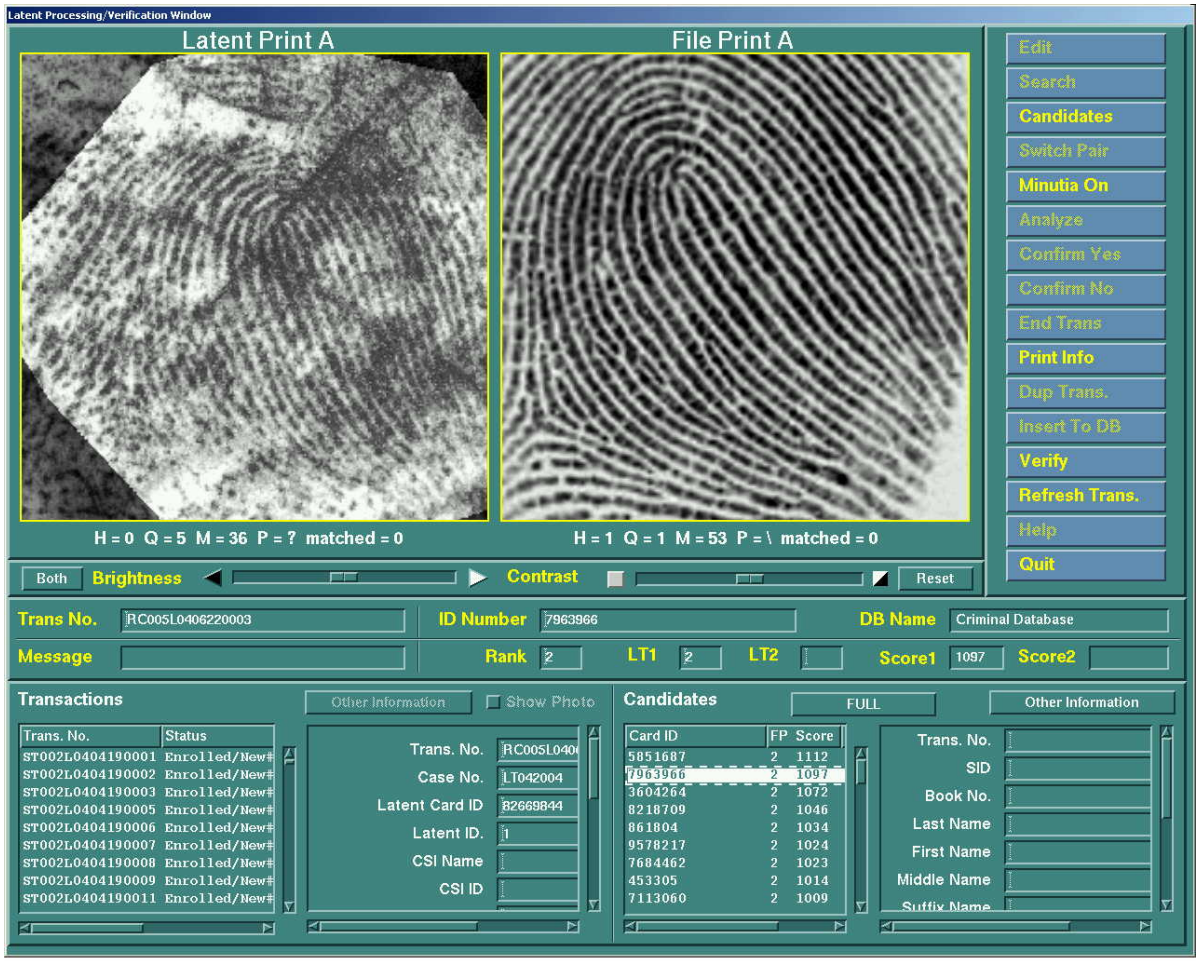
# IDENT Latent Capability

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# DHS Perspective: What's Next?

- Increased Need to Share Linked Biometric and Biographical Information (XML, CBEFF, BioAPI)
- Multiple Biometric Types (Fingerprint, IRIS, Facial, etc.)
- Need for Open, Non-proprietary Systems
- Emphasis on Data Quality to Enhance Match Accuracies
- Need Standards for Less Than 10-P Systems

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