



# Biometric Interoperability

Criminal Justice Information Services Division

Interoperability Initiatives Unit

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# Biometric Interoperability

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- To achieve biometric-based information sharing by making the Department of Justice (DOJ) Federal Bureau of Investigation (FBI) Integrated Automated Fingerprint Identification System (IAFIS)/Next Generation Identification interoperable with other repositories in order to exchange information in real or near-real time.



# Authorities

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- Title 28 United States Code (U.S.C.), § 534
  - The Attorney General shall “acquire, collect, classify, and preserve identification, criminal identification, crime, and other records.”
- Homeland Security Presidential Directive (HSPD) 24, June 5, 2008 : Biometrics for Identification and Screening to enhance National Security
- Executive Order No. 13388: Homeland Security Information Sharing , October 25, 2005



# User Agreements

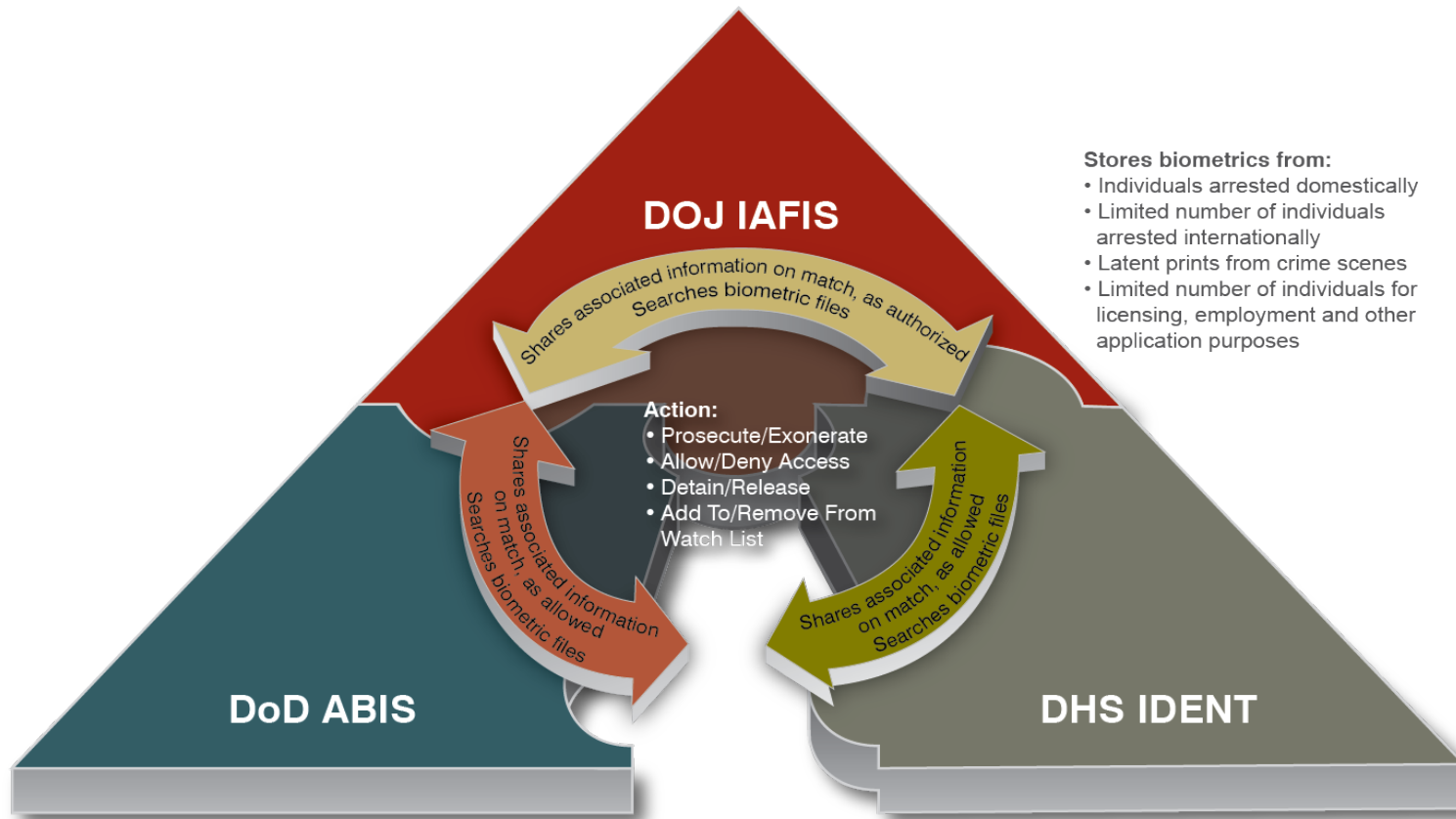
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- Memorandum of Understanding (MOU) among the Department of Homeland Security, DOJ FBI Criminal Justice Information Services Division and Department of State Bureau of Consular Affairs for Improved Information Sharing Services, July 1, 2008
- MOU between the FBI and the Department of Defense for Sharing of Biometric and Other Identity Management Information, September 10, 2009



# Interagency Information Sharing



## Stores biometrics from:

- Individuals arrested domestically
- Limited number of individuals arrested internationally
- Latent prints from crime scenes
- Limited number of individuals for licensing, employment and other application purposes

## Stores biometrics from:

- Credential applicants requesting access to U.S. installations overseas
- Latent prints from IEDs and other hostile actions
- Enemy combatants
- Detainees

## Stores biometrics from:

- Visa applicants
- Travelers to the U.S.
- Immigration violators
- Other immigration and border management benefits and credential applicants
- Latent prints from DoD, DoJ and DHS



# Background

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- Gaps in information sharing between United States Government Biometric Systems
- High-profile attention
  - Railroad killer – Rafael Rasendez-Ramirez
  - Manuel Batres
  - September 11, 2001
- Initial emphasis –
  - DOJ FBI
    - IAFIS
  - Department of Homeland Security (DHS) United States Visitor and Immigrant Status Indicator Technology (US-VISIT)
    - Automated Biometric Identification System (IDENT)



# Background

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- IAFIS and IDENT
  - Developed concurrently in the 1990s
  - Supported different mission needs
  - Utilized different fingerprint standards
    - IAFIS based on 10 rolled fingerprints
    - IDENT based on 2 flat fingerprints
  - Not integrated



# Congressional Mandate

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- Congressional Legislation
  - Public Law 107-56 (Uniting and Strengthening America by Providing Appropriate Tools Required to Intercept and Obstruct Terrorism Act of 2001)
  - Appropriation Bills
  - 8 U.S.C. Section 1722(a) - Enhanced Border Security and VISA Entry Reform Act of 2002





# Incremental Solution



2005	2006	2007	2008	2009-2011
<ul style="list-style-type: none"><li>▶ DHS decision to transition to 10 prints</li><li>▶ IAFIS and DoD ABIS become fully interoperable</li></ul>	<ul style="list-style-type: none"><li>▶ Interim Data Sharing Model (iDSM) deployed<ul style="list-style-type: none"><li>– Reciprocal exchange of IAFIS and IDENT subsets in near real time</li><li>– Eliminated need for data extracts</li></ul></li></ul>	<ul style="list-style-type: none"><li>▶ CBP pilot 10 print collection</li></ul>	<ul style="list-style-type: none"><li>▶ CBP and DOS 10 print collection roll out begins</li><li>▶ Shared Services initiated<ul style="list-style-type: none"><li>– Capable of searches against full repositories of IDENT and IAFIS</li></ul></li></ul>	<ul style="list-style-type: none"><li>▶ Expansion of IDENT - IAFIS Interoperability</li><li>▶ Expansion of IAFIS - ABIS Interoperability</li></ul>



# IDENT/IAFIS

## Interoperability Process



**Law Enforcement Agency submits fingerprints to State Identification Bureau (SIB)**

- SIB forwards fingerprints to FBI CJIS Division



**FBI CJIS Division searches IAFIS Criminal Master File**

- IAFIS returns response to SIB per current business processes



**FBI CJIS Division generates a biometric search of DHS' IDENT**

- IDENT returns response to IAFIS



**FBI CJIS Division generates an Immigration Alien Query to DHS ICE LESC for biometric matches in IDENT using IDENT response information as needed**

- LESC responds to IAFIS with Immigration Alien Response (IAR) indicating subject's immigration status



**FBI CJIS Division combines the IDENT response & IAR into one response**

- Combined response is forwarded to SIB
- SIB forwards to LEA if agency is technically capable of receiving DHS responses



# IDENT/IAFIS Interoperability

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- Federal Participants
  - Customs and Border Protection
  - Department of State (DOS) Consular Affairs
  - DOS Office of Personnel Security and Suitability
  - Office of Personnel Management
- State and Local Law Enforcement
  - Jurisdictions in 43 states and one U. S. territory participating



# IAFIS/ABIS Interoperability

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- Department of Defense (DoD) Biometrics Task Force sent extracts to FBI CJIS in 2004
- Automated Biometric Identification System (ABIS) and IAFIS became biometrically interoperable in December 2005
  - For select searches



# IAFIS/ABIS/IDENT Interoperability

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- IAFIS' interoperability with both ABIS and IDENT provides, when authorized, access to all three biometric systems
- Current participants:
  - FBI Mobile
  - FBI CJIS Division Bioterrorism Risk Assessment Group
  - U.S Coast Guard
  - ICE Biometric Identification Transnational Migration Alert Program



# Challenges in Sharing Information

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- Constraints related to different missions
  - IAFIS/NGI – criminal history repository
  - IDENT – immigration identity and history
  - ABIS – military interests
- Policy limitations in sharing
- Lack of uniformity in technical standards



# Current/Future Efforts

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- IDENT/IAFIS Interoperability
  - FBI CJIS Division request for DHS approval of all criminal justice users as authorized users
- IAFIS/ABIS Interoperability
  - Expand current use
- IAFIS/ABIS/IDENT Interoperability
  - Where authorized, increase participation



# Current/Future Efforts

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- Latent Interoperability
  - Ability for State and Local Law Enforcement to search IAFIS, IDENT and ABIS latent repositories with one query
- Latent Interoperability Pilot
  - Texas Department of Public Safety
    - Search of IDENT and ABIS





# Contact Information

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