

DoD Biometrics Architecture Briefing to Industry

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Biometrics Task Force

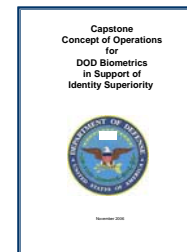
Technical Integration Division

28 Feb 08

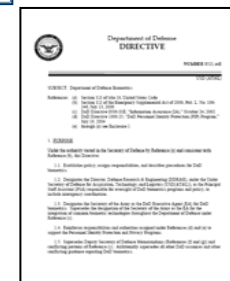
Why Biometrics?

Biometrics In DOD: Biometrics are important to Military and Business operations in the DOD because they can provide a high level of certitude about the identity of individuals

- **Military Requirement for Biometrics.** Locate identify, track and target specific individuals in conventional warfare, combating terrorism, forcible entry, strikes, raids and operations with Multinational partners.
- **Business Requirement for Biometrics.** Accurate identification is critical for DOD business functions, such as the delivery of personnel, finance and medical services, and allowing physical and logical access to facilities or capabilities.



**DoD Capstone
CONOPs Nov 06**



**DoDD 8521
Feb 08**

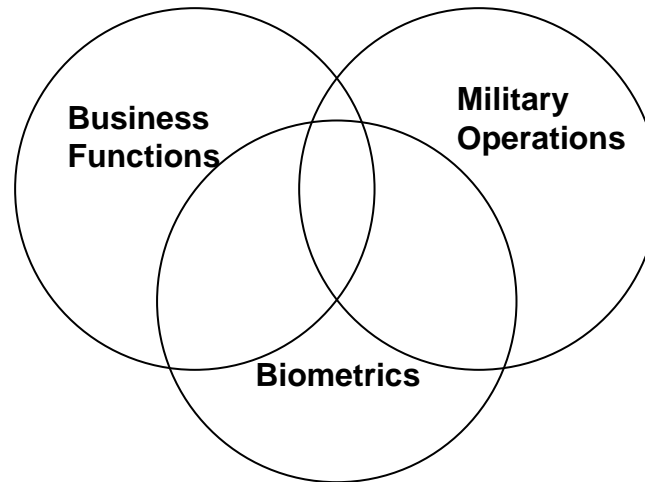
**DoDI 8XXX
Coming
Soon**



Biometrics is about Individuals: Biometrics are measurable physical and behavioral characteristics that enable the establishment and verification of an individual's identity.

The Biometric Process - About Individuals

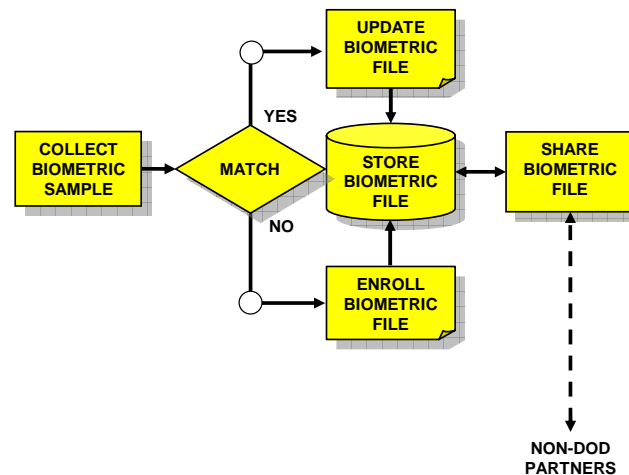
The DOD Biometric Process: Incorporates Biometrics with other sources of information about individuals to satisfy unique military or business process requirements.



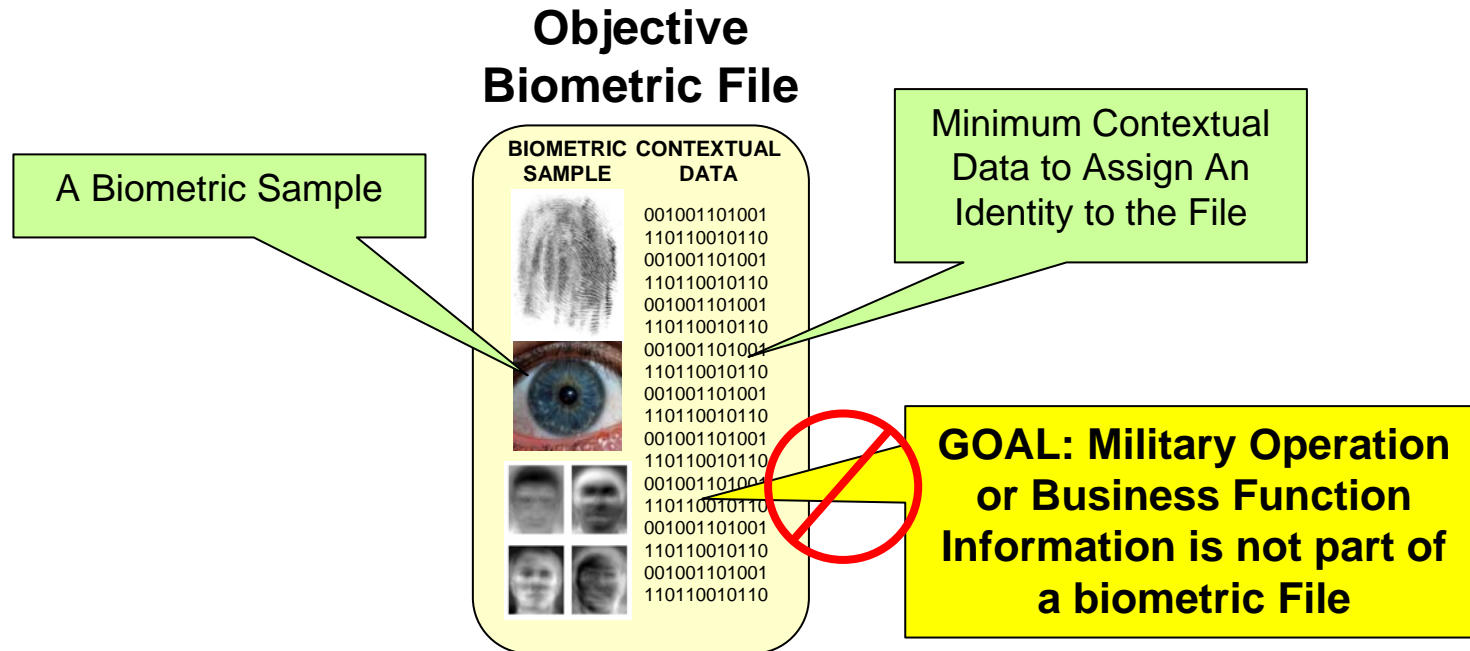
- **Biometrics is only one source of information about an individual** - Biometrics is unique, measurable physical and behavioral information about an individual such as finger, face, hand, eye, voice, and DNA.
- **Non Biometric sources of information already exist about individuals:** Intelligence files, Medical Files, Personnel Files, Criminal Records, Financial Files, Public Records, Educational Transcripts, etc.

Biometric Functions

- **Collect**: Create and transmit a standardized, high-quality biometric file consisting of a biometric sample and contextual data to a data source for matching.
- **Match**: Accurately identify or verify the identity of an individual by comparing a standardized biometric file to an existing source of standardized biometrics data.
- **Store**: Enroll, update, and maintain biometric files to make available standardized, current biometric information of individuals.
- **Share**: Exchange standardized biometric files and match results among approved DOD, Interagency, and Multinational partners in accordance with applicable law and policy.



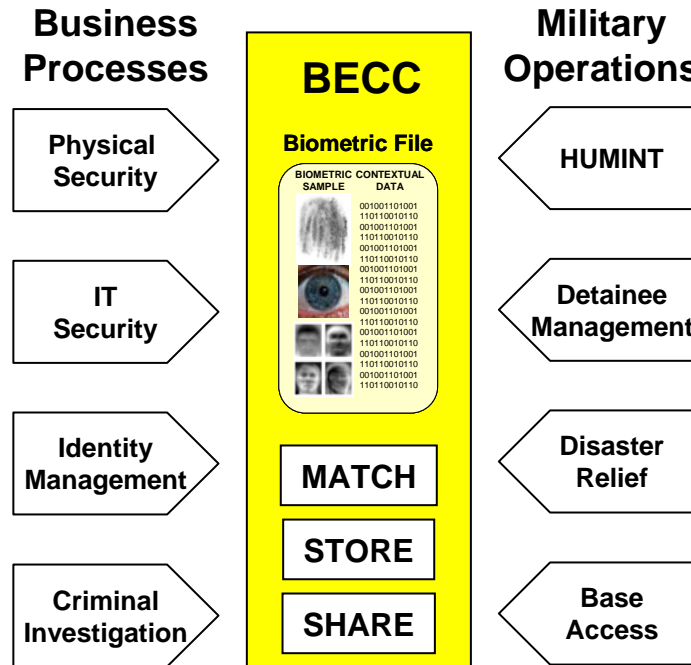
Elements of a Biometric File



Notional Key Performance Parameters For Biometric Files:

1. Biometric Files are a DOD Enterprise Commodity
2. Are Managed by a Single Authoritative Source
3. Conform To Enterprise Standards
4. Can be Shared In An Unclassified Form over Enterprise Networks
5. Must Not Be Captured, Changed or Corrupted By A Specific Military Mission Or Functional Business Process

Biometrics Enterprise Core Capability (BECC)

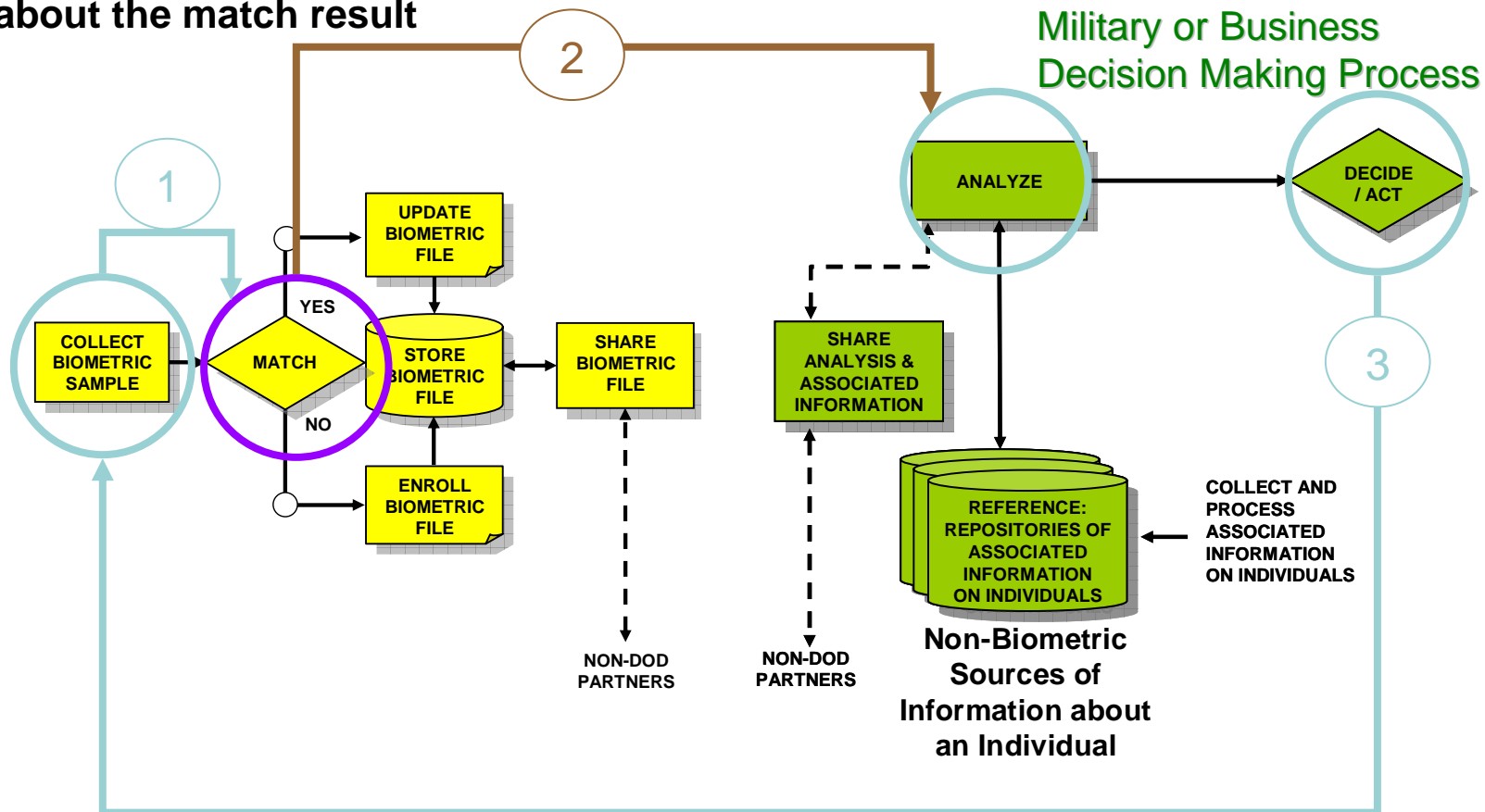


*Illustrative Examples Only

All Biometrically Enabled Military Operations And Business Functions Use BECC As The Single DOD Authoritative Source

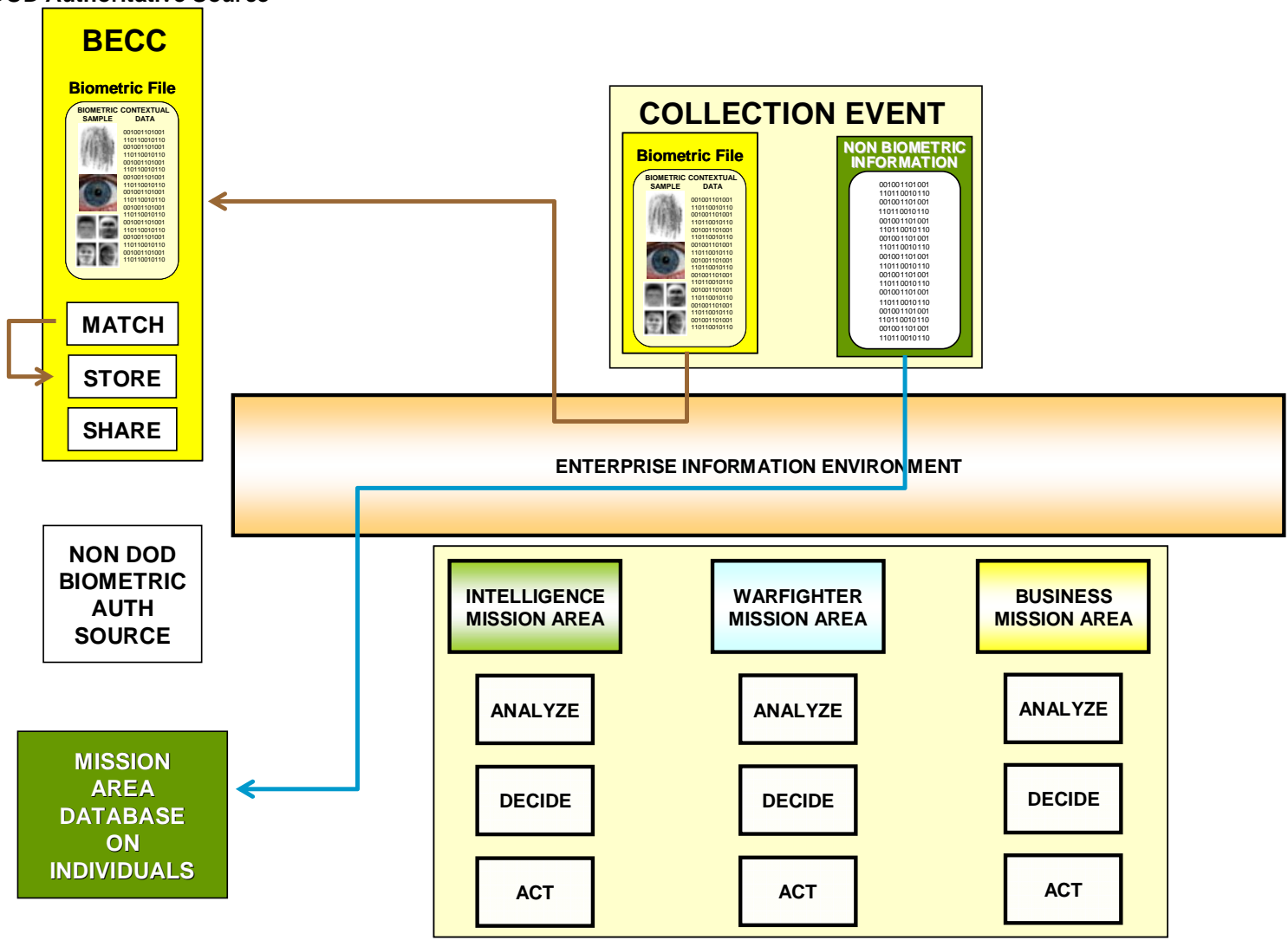
Relationship of Biometrics Functions to Military Operations and Business Functions

1. Collect - a mission or business reason to collect a biometric sample
2. The Biometrics Process determines if the collected file matches an existing file
3. Military or business decision making process helps leaders determine what to do about the match result



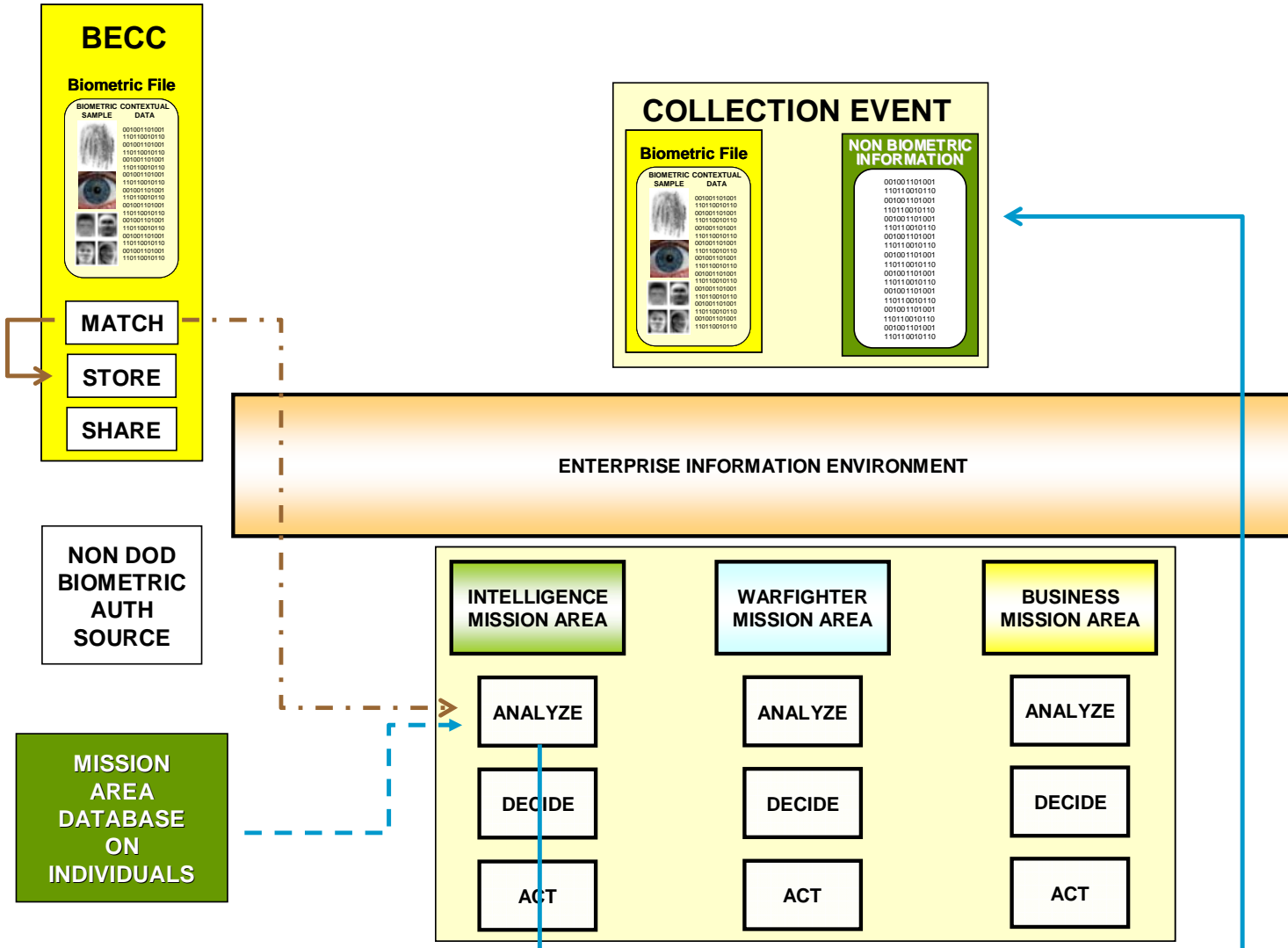
Map Operational and Systems Architectures

DOD Authoritative Source

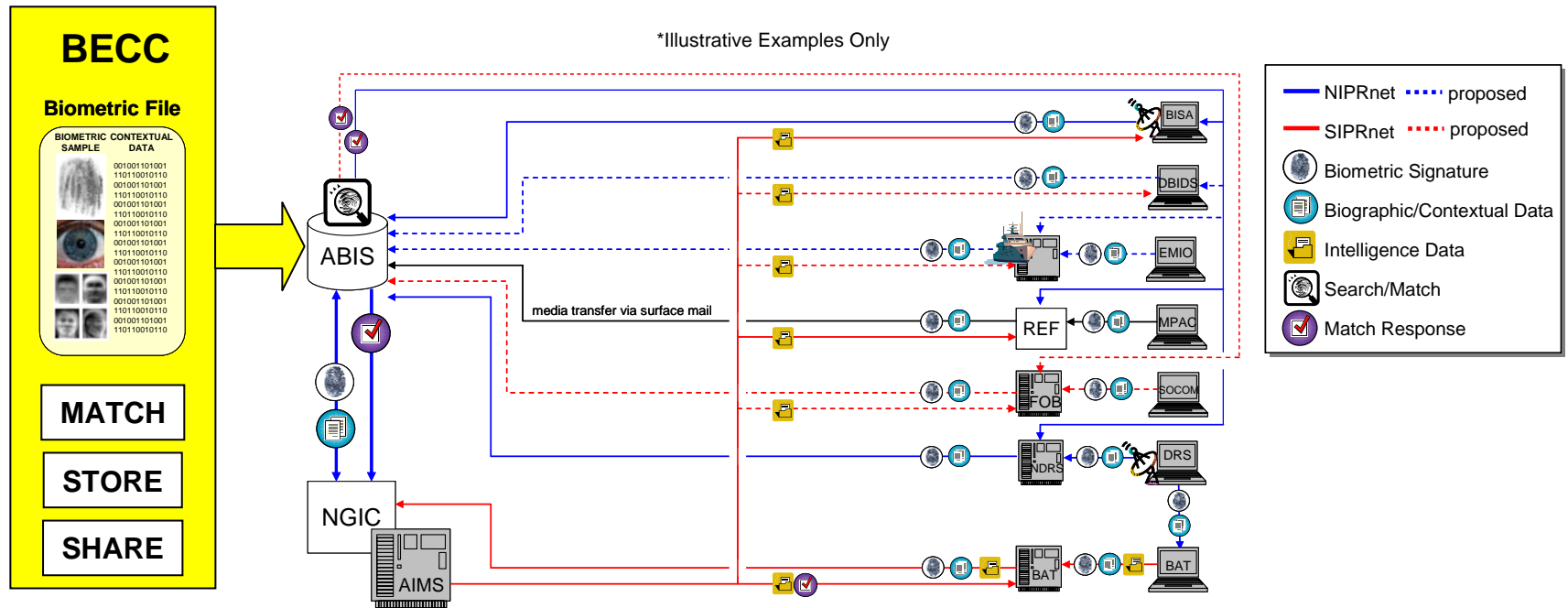


Map Operational and Systems Architectures

DOD Authoritative Source



Map Operational, Systems and Technical Architectures



1. Determine Operational Architecture In Each Mission Area – For Each Capability/Application
2. Determine Systems Architecture In Each Mission Area - For Each Capability/Application
3. Ensure Data Interoperability Across Each Mission Area - For Each Capability/Application

**Ensure the efficient flow of Biometric Identity Services
Across the DOD Enterprise**

Current Challenges

- Interoperability/Capability
 - Varieties of Military Missions and Business Functions
 - Classification
 - Varieties of Hardware and Software
 - Proprietary Components - Cost, Maintainability, Backwards Compatibility
 - Emerging Technologies
- Standards and Policy
 - National Culture
 - US and non-US Individuals
 - Timely and Relevant
- Supporting Network Infrastructure – Now, Tomorrow and Beyond
- Security/Information Assurance
- Resources
 - Training, Budget, Personnel, Acquisition



Backup

Biometrics Process OV-1

