



BIOMETRICS
DEPARTMENT OF DEFENSE

Biometric Standards

Presented by

Department of Defense Biometrics

DoD Biometrics Management Office

DoD Biometrics Fusion Center

PKI PKE Forum

New Orleans, LA

14-18 June, 2004

www.biometrics.dod.mil



Purpose

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Provide an overview of the current state of biometric standardization activities and DoD Biometrics involvement in biometric standards development



Need for Biometric Standards

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- **Currently, there is a general lack of interoperability between and among biometric data formats generated by various vendors**
- **There are no established standards for measuring the accuracy of biometric products**
- **There are no established standards for conformance testing**
- **Lack of standards impedes the wide-scale adoption of interoperable biometric technologies**



Why Standards?

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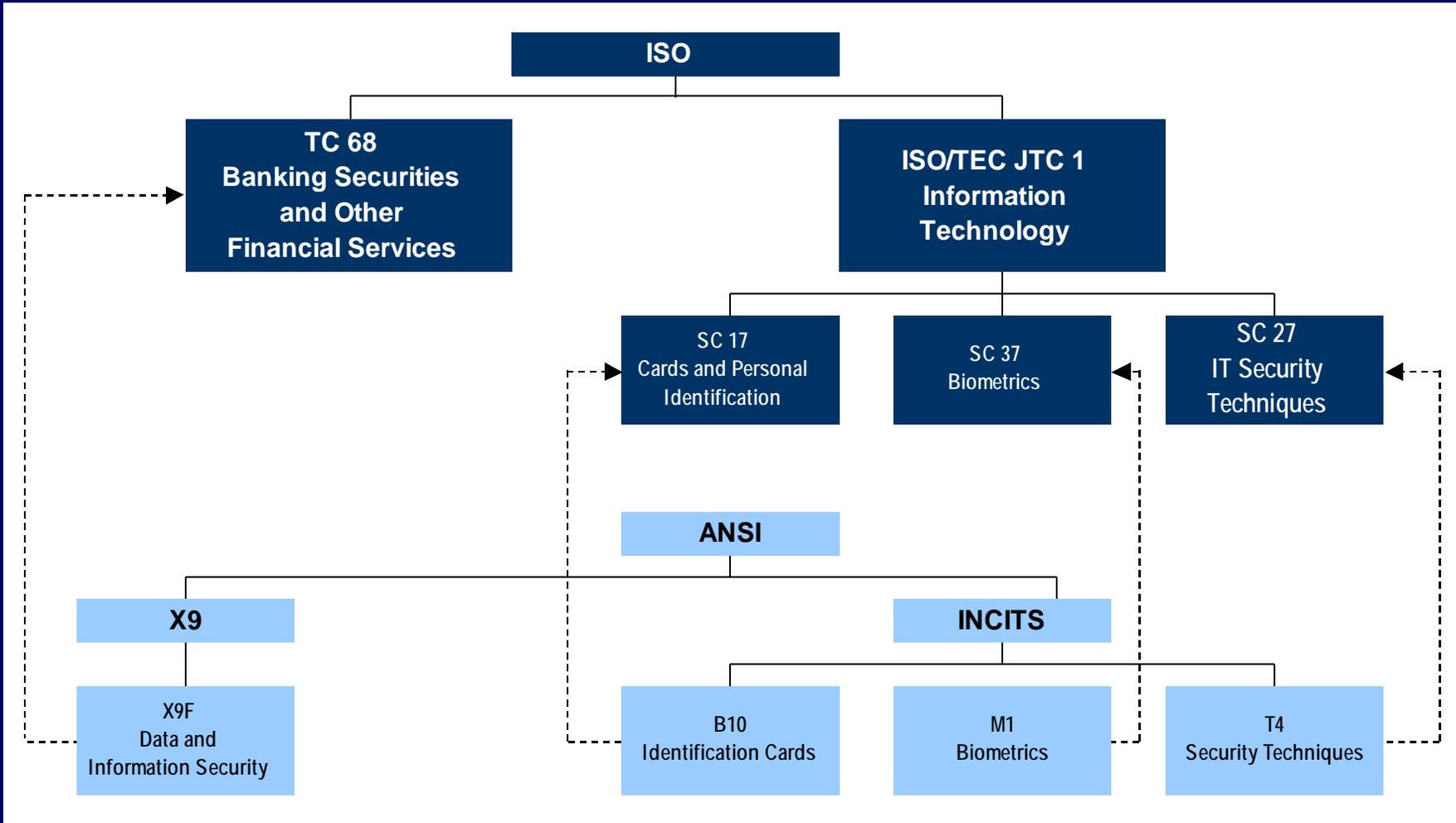
National Technology Transfer and Advancement Act (NTTAA) – Public Law 104-113 (1996)

- **Encourages participation in and use of commercial standards**
- **Requires Federal agencies and departments to explain failures to use commercial standards when such standards meet their needs**
- **Requires Federal agencies to adopt commercial standards wherever possible – particularly those that standards developing organizations have developed – in lieu of creating proprietary, nonconsensus standards**



Current Biometric Standards Organizations

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Legend:

 International Standards Body

 National Standards Body

 U.S. Technical Advisory Group (TAG) for ISO Subcommittee



DoD Approach to Biometric Standards Development

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- **Coordinate with DoD services and agencies and with other Federal agencies**
 - **Biometric Standards Working Group**
 - **US Government Workshop**
- **Participate in the national and international biometric standards organizations**
- **Develop biometric standards in priority areas where gaps exist**
 - **Conformance testing methodology standards**
 - **Conformance test suite**
 - **DoD application profile standard**

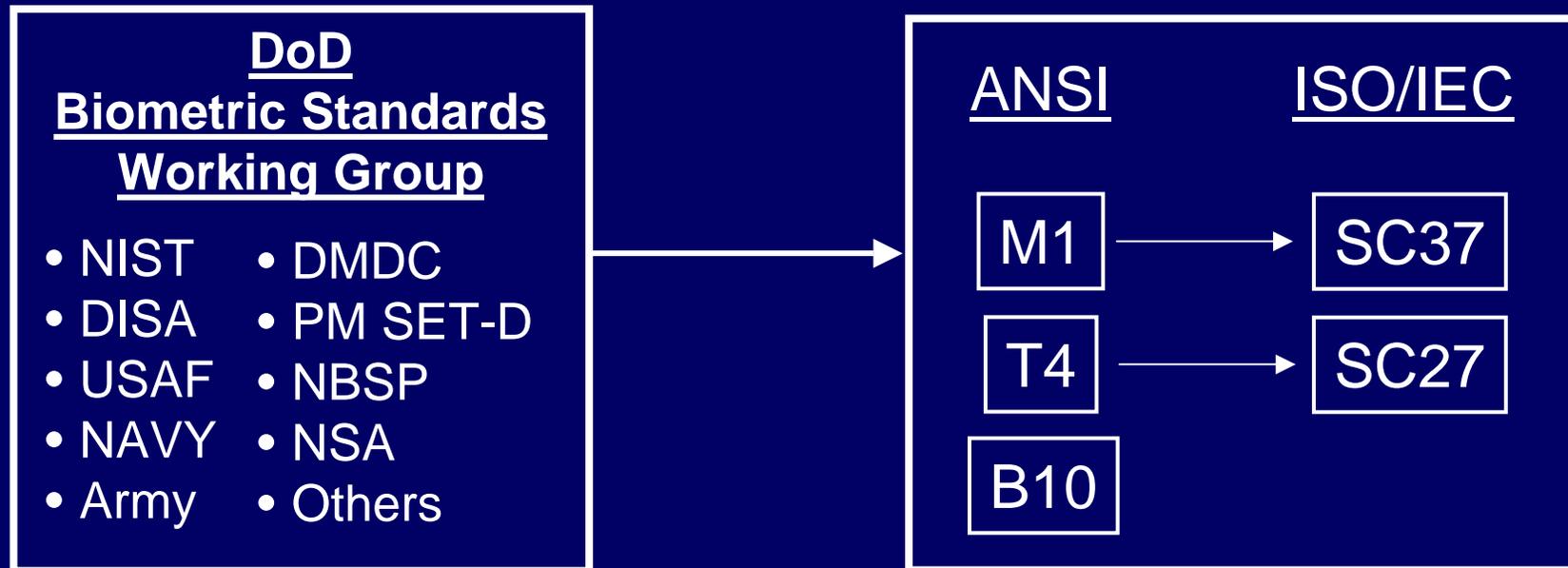


DoD Biometric Standards Working Group

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DoD Biometrics:

- Coordinates and chairs the Biometric Standards Working Group
- Actively participates in M1, T4, B10, SC37, and SC27





DoD Biometric Standards Development Approach Document

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Developed and coordinated with over 22 DoD organizations in January 2004

- **Provides a comprehensive approach for identifying, participating in, and developing biometric standards in the DoD**
- **Ensures the DoD Biometrics Standards Development Approach is consistent with DoD guidance and Federal laws**
- **Establishes a coordinated approach between the DoD and Federal agencies**
 - **First step toward coordinating standards efforts with other Federal agencies**



US Government Workshop on Biometric Standards in Support of Global War on Terrorism – 25 May 04

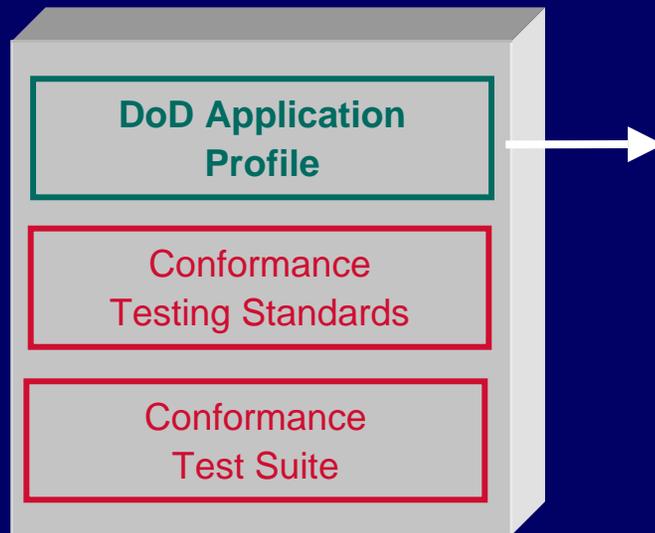
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- In collaboration with DHS, NIST, and NSA, DoD Biometrics organized a U.S. Government Workshop to coordinate the development of biometric standards in support of the Global War on Terrorism
- Over 70 participants from 28 organizations
- The workshop identified gaps and recommended areas of coordination between US Government agencies in the development of biometric standards



Current DoD Biometrics Initiatives: DoD Application Profile

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- ▶ The DoD Biometric Application Profile captures standards requirements needed to support military biometrics applications
- ▶ A key part of this profile is the discussion of “Red Force” biometric standards – i.e., standards for processing biometric data from detainees, prisoners of war, and persons of military interest

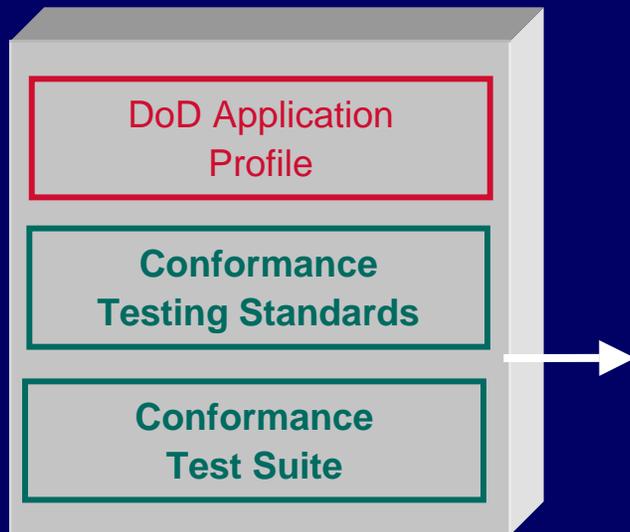
▶ **Status:**

Project Proposal Submitted to M1:	Dec 03
Project Proposal Approved By INCITS:	Feb 04
First Draft Reviewed By M1.4:	May 04
Second Draft:	Aug 04
Final Standard:	2Q 05



Current DoD Biometrics Initiatives: Conformance Testing Standards and Tools

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- ▶ DoD Biometrics provides project editors for international BioAPI and US Finger Image conformance test standards
- ▶ DoD Biometrics leads development effort for a BioAPI Conformance Test Suite
- ▶ Status:
 - BioAPI Conformance Test Standards Project Proposal Approved by M1: May 04
 - Finger Image Conformance Test Standards Project Proposal Approved by M1: May 04
 - BioAPI Conformance Test Suite: Development
 - BioAPI Conformance Test Suite prototype: 4Q 04
 - BioAPI Conformance Test Suite final: 1Q 05



Way Ahead

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- **Continue DoD Biometrics' active role in standards bodies**
- **Continue lead role in the development of:**
 - **DoD Application Profile**
 - **Conformance Testing Standards**
 - **Conformance Test Tools**
- **Establish a biometric conformity program for DoD**
- **Expand the membership of the Biometric Standards Working Group to include NBSP and other US Government organizations**
- **Follow up Standards Workshop efforts / continue coordination with other US Government agencies**



Summary

- **Biometric standards are essential for interoperability**
- **During the past year there has been significant progress in the standardization of biometrics data interchange formats**
- **Biometric testing standards are still in their infancy**
- **DoD Biometrics actively participates in biometric standards bodies to accelerate the development of biometric standards**



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Contact Information

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