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DoD's Role in Biometric Standards

Presented by
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Biometric Consortium Conference 2004

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www.biometrics.dod.mil



Purpose

Provide an overview of the DoD Biometrics Management Office (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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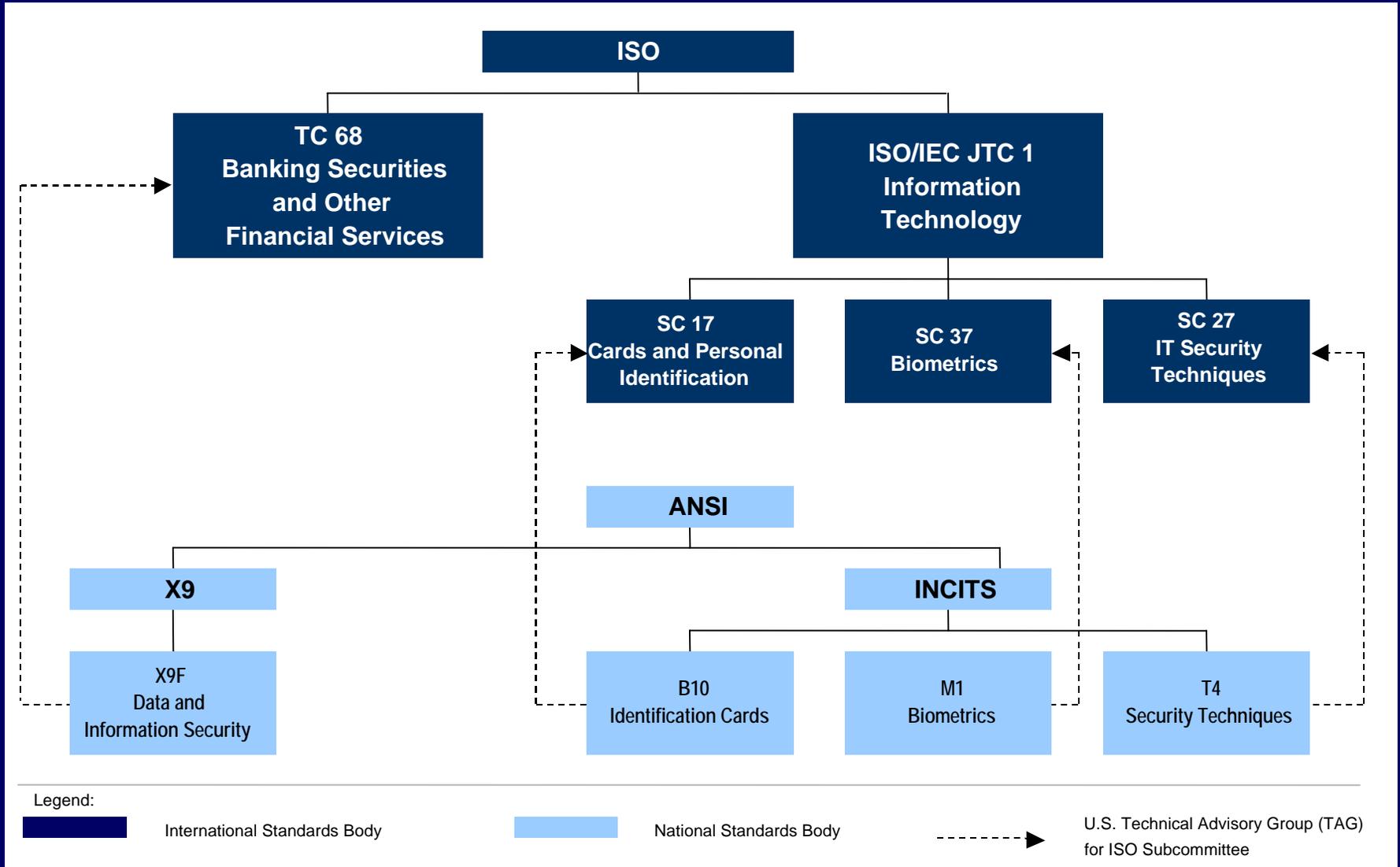
National Technology Transfer and Advancement Act (NTTAA) of 1995 – Public Law 104-113 (1996)

- Encourages participation in and use of commercial standards
- Requires U.S. Government organizations to explain failures to use commercial standards when such standards meet their needs
- Requires U.S. Government organizations 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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DoD BMO Approach to Biometric Standards Development

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- **Coordinate with DoD services and agencies and with other U.S. Government organizations**
 - DoD Biometric Standards Working Group
 - U.S. Government Workshop
- **Actively 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

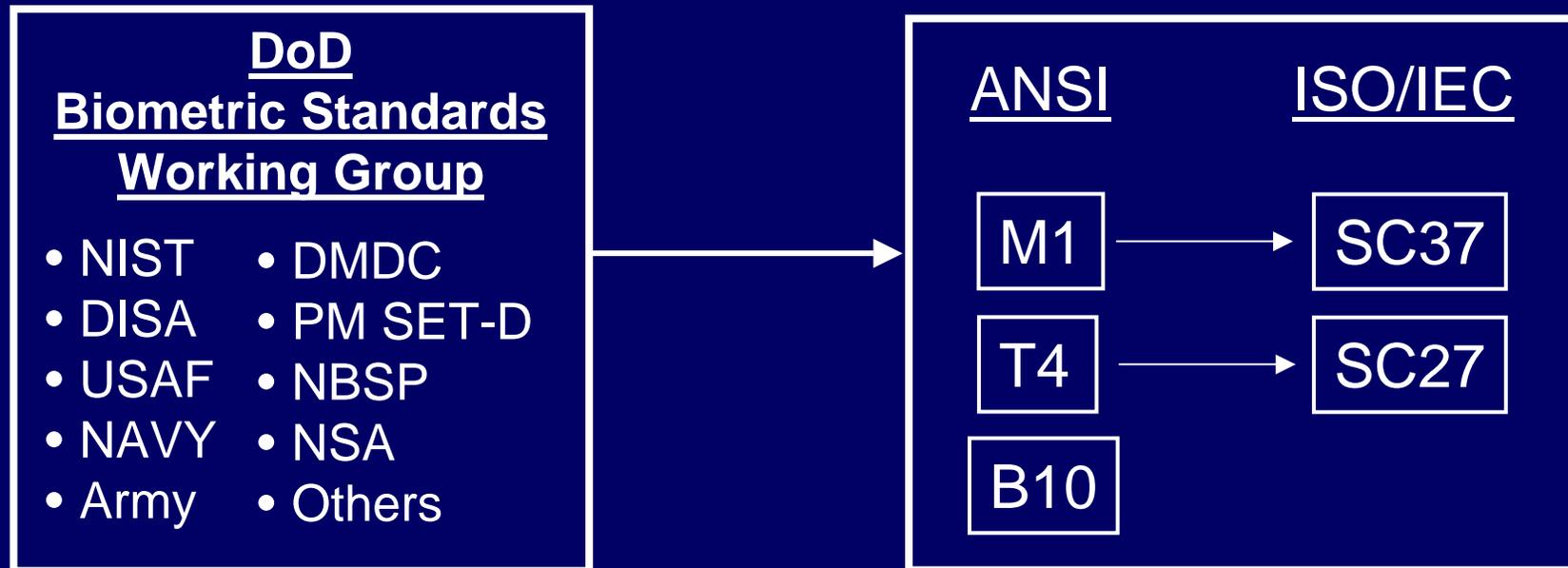


DoD Biometric Standards Working Group

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DoD Biometrics:

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





DoD Biometric Standards Development Recommended Approach Document

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**Developed and Coordinated with 22 DoD
organizations in 2004**

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



U.S. Government Workshop on Biometric Standards in Support of Global War on Terrorism – 25 May 04

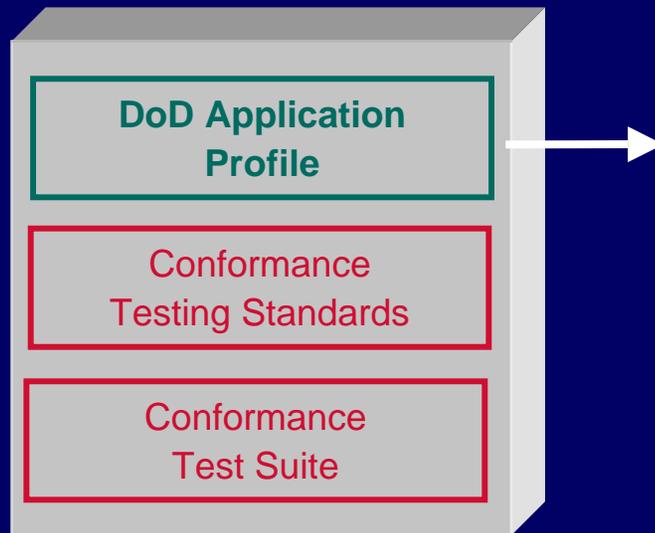
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- **In collaboration with DHS and NIST, DoD Biometrics organized a U.S. Government Workshop to coordinate the development of biometric standards in support of the Global War on Terrorism**
- **Over 70 participants from 28 organizations**
- **The workshop identified gaps and recommended areas of coordination between U.S. Government organizations in the development of biometric standards**
- **Conference proceedings available at www.biometrics.dod.mil**



Current DoD Biometrics Initiatives: DoD Application Profile

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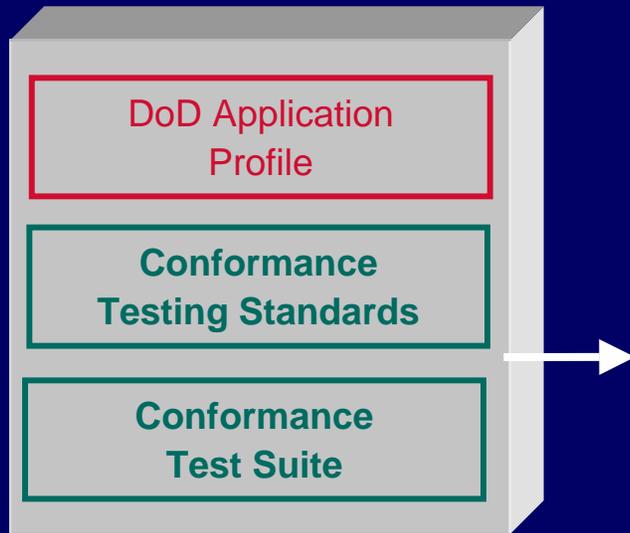
- ▶ The DoD Biometric Application Profile captures standards requirements needed to support military biometrics applications
- ▶ Status:

Project Proposal Submitted to M1:	Dec 03
Project Proposal Approved By INCITS:	Feb 04
First Draft Reviewed By M1.4:	May 04
Second Draft:	Oct 04
Final Standard:	3Q 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 is leading a 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 Dev: Ongoing
 - BioAPI Conformance Test Suite prototype: 4Q 04
 - BioAPI Conformance Test Suite final: 3Q 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 assessment program for the DoD**
- **Expand the membership of the Biometric Standards Working Group to include additional U.S. Government organizations**
- **Follow up Standards Workshop efforts / Continue coordination with other U.S. Government organizations**



Summary

- **Biometric standards are essential for interoperability**
- **DoD Biometrics is committed to advancing biometric standards**
- **During the past year there has been significant progress in biometrics standards development**
- **DoD Biometrics provides a lead role in coordinating biometric standards development initiatives in the DoD**



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Contact Information

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