

M1/04-0586

Project Proposal

**ANSI/INCITS 383 - Biometric Profile - Interoperability and Data Interchange -
Biometrics Based Verification and Identification of Transportation Workers –
Amendment 1**

1. Source of the Proposed Project

1.1. Title

ANSI/INCITS 383 - Biometric Profile - Interoperability and Data Interchange -
Biometrics Verification and Identification of Transportation Workers – Amendment 1

1.2. Date Submitted

October 5, 2004

1.3. Proposer

INCITS Technical Committee M1

2. Process Description for the Proposed Project

2.1. Project Type

D - This is a standard development project.

2.2. Type of Document

The project is expected to result in an amendment to ANSI/INCITS 383-2004

2.3. Definitions of Concepts and Special Terms

Base Standards - define fundamentals and generalized procedures. They provide an infrastructure that can be used by a variety of applications, each of which can make its own selection from the options offered by them.

Application Profiles - define conforming subsets or combinations of base standards used to provide specific functions. Application Profiles identify the use of particular options available in the base standards, and provide a basis for the interchange of data between applications and interoperability of systems.

2.4. Expected Relationship with Approved Reference Models, Architectures, etc.

None

2.5. Recommended INCITS Development Technical Committee

INCITS Technical Committee M1 – Biometrics

2.6. Anticipated Frequency and Duration of Meetings

It is anticipated that this project would require one-day meetings approximately four times annually.

2.7. Target Data for Initial Public Review

It is estimated that the draft document would be ready for submission to INCITS for Milestone 4 processing in June 2005.

2.8. Estimated Useful Life of Standard

ANSI/INCITS 383-2004 has an estimated life of 5-years. This amendment will extend the life by at least two additional years.

3. Business Case for Developing the Proposed Standard

3.1. Description

The proposed amendment is intended to correct any technical errors noted during the publication cycle of ANSI/INCITS 383-2004 as well as take advantage of including new technology as it evolves and becomes stable.

3.2. Existing Practice and the Need for a Standard

ANSI/INCITS 383-2004 is currently being used in Federal procurements related to the identification of Transportation Workers for Access Control. This amendment will extend the possibilities of adding new technology for use in this application and correct any technical errors discovered during the publication cycle or during its implementation as a procurement tool.

3.3. Implementation Impacts of the Proposed Standard

3.3.1. Development Costs

Technical editor labor is expected to total about one month of a staff-year.

3.3.2. Impact on Existing or Potential Markets

The new priorities for homeland defense in transportation systems drive the potential market.

Development of this amendment should help to further accelerate the deployment of standards-based biometric applications within transportation systems.

3.3.3. Costs and Methods for Conformity Assessment

This amendment should provide a stronger basis for the development of uniform, internationally recognized, interoperability and conformance tests. The willingness of vendors and end-users to jointly define testing requirements is demonstrated by strong activity and support for performance test development within Technical Committee M1.. The possible testing environment may range from the use of suppliers' declarations to third party testing. Therefore the cost of conformity assessment is not known at this time.

3.3.4. Return on Investment

There is no known data on which to make an estimate.

3.4. Legal Considerations

3.4.1. Patent Assertions

Determination of patents relevant to this proposed amendment will be dependent upon the selection and specification of options in base standards for use in this application profile.

3.4.2. Dissemination of the Standard

Drafts of this amendment will be distributed electronically. There may be distribution constraints as this document reaches different stages of development and processing within INCITS and ISO/IEC JTC1.

4. Related Standards Activities

4.1. Existing Standards

Existing base standards, which may be specified in the proposed application profile standard, include:

ANSI/INCITS 358-2002 - Information Technology - BioAPI Specification

ANSI/INCITS 378-200x – Information Technology – Finger Minutiae Format for Data Interchange

ANSI/INCITS xxx-200x – Information Technology – Face Recognition Format for Data Interchange

ANSI/INCITS 377-200x – Information Technology – Finger Pattern-Based Format for Data Interchange

ANSI/INCITS 379-200x – Information Technology – Iris Image Interchange Format

ANSI/INCITS 381-200x – Information Technology – Finger Image Based Format for Data Interchange

ANSI/INCITS yyy-200x – Information Technology – Signature and Sign Based Format for Data Interchange

ANSI/INCITS zzz-200x – Information Technology – Biometric Performance Testing and Reporting

NISTIR 6529-A - Common Biometric Exchange Formats Framework (CBEFF)

ISO/IEC CD 24713-2 – Biometric Profiles for Interoperability and Data Interchange – Part 2: Biometric-Based Verification and Identification of Employees in a Highly Secure Environment

ISO/IEC 10918 - Information technology - Digital Compression and coding of continuous-tone still images (JPEG) (Parts 1-4)

ISO/IEC 15444 - Information technology - JPEG 2000 Image Coding System (Parts 1-10)

Federal Information Processing Standard (FIPS) - FIPS 197 Advanced Encryption Standard (AES) - November 2001

ISO/IEC WD 18033 - Information technology - Security techniques - Encryption algorithms (Parts 1-3)

ISO/IEC CD 7816-11.2 - Identification cards - Integrated circuit(s) cards with contacts - Part 11 Personal verification through biometric methods in integrated circuit cards

Communication standards, such as the IETF RFCs for TCP/IP

4.2. Related Standards Activity

Related standards activity includes: INCITS Technical Committees B10, L3, and T4; ASC X9;

NIST/BC Biometric Interoperability, Performance and Assurance WG, BioAPI Consortium,

IETF, and NIST ITL

4.3. Recommendations for Close Liaison

INCITS Technical Committees B10, L3, and T4.

ASC X9F4

NIST/BC Biometrics WG

BioAPI Consortium

IBIA

TBF

ICAO

5. Units of Measurement used in the Standard

Indicate units of measurement used in the Standard:

- ___ International Systems of Units (SI)
- ___ Inch/Pound
- ___ Both
- ___ Other
- XX Not Measurement Sensitive