

M1/06-0378

InterNational Committee for Information Technology Standards
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Project Proposal:

**ANSI/INCITS 398-2005 - Information technology - Common Biometric Exchange
Formats Framework (CBEFF) - Revision 1**

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Project Proposal

ANSI/INCITS 398-2005 - Information technology - Common Biometric Exchange Formats Framework (CBEFF) - Revision 1

1. Source of the Proposed Project

1.1. Title

ANSI/INCITS 398-2005 - Information technology - Common Biometric Exchange Formats Framework (CBEFF) - Revision 1

1.2. Date Submitted

April 6, 2006

1.3. Proposer

INCITS Technical Committee M1

2. Process Description for the Proposed Project

2.1. Project Type

R – this is a revision project.

2.2. Type of Document

The project is expected to result in a revision to INCITS 398-2005.

2.3. Definitions of Concepts and Special Terms

- CBEFF - Common Biometric Exchange Formats Framework. - CBEFF defines a set of data elements for use in biometric record headers that supports the interchange of biometric data.
- CBEFF Basic Structure – Defines a structure that consists of a single Standard Biometric Header followed by a Biometric Data Block and an optional Signature Block.
- CBEFF Nested Structure – Defines a Root Header followed by Sub-Headers, one or more CBEFF Basic Structures, and an optional Signature Block.
- CBEFF Patron – Defined as an organization that has defined a standard or specification incorporating biometric data objects that is CBEFF compliant.

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 half-day meetings approximately four times annually.

2.7. Target Date for Initial Public Review

It is estimated that the draft document would be ready for submission to INCITS for Milestone 4 processing (Initial Public Review) in June 2006.

2.8. Estimated Useful Life of Standard

ANSI/INCITS 398-2005 has an estimated life of 5-years. This amendment will extend the life by at least three additional years.

3. Business Case for Developing the Proposed Standard

3.1. Description

The proposed revision will incorporate technical and editorial changes resulting from the experience of users of the current standard. Changes and additions to field definitions, tables, patron formats and possibly other elements of the standard are expected to be made. The complexity and diffusion of these anticipated changes will most suitably be accomplished by a revision.

3.2. Existing Practice and the Need for a Standard

ANSI/INCITS 398-2005 is a requirement for conformance included in all the INCITS M1 biometric data interchange standards. Implementers of biometric data interchange solutions claiming conformance to these INCITS standards are required to embed the biometric data within a CBEFF data structure. INCITS 398 is currently being used in US Federal government requirements. The proposed revision will satisfy the requirements described in 3.1.

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, the use of biometrics in support of preventing ID theft, and other government and commercial applications drive the anticipated larger potential market. Development of this revision should help to further accelerate the deployment of standards-based biometric applications within these applications.

3.3.3. Costs and Methods for Conformity Assessment

This revision 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 and conformance ongoing developments 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

There are no known patents relevant to this standard.

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.

4. Related Standards Activities

4.1. Existing Standards

- Existing base standards, that includes CBEFF as a normative reference include:
INCITS 377-2004 – Information Technology – Finger Pattern-Based Format for Data Interchange
- INCITS 378-2004 – Information Technology – Finger Minutiae Format for Data Interchange
- INCITS 379-2004 – Information Technology – Iris Image Interchange Format
- INCITS 381-2004 – Information Technology – Finger Image Based Format for Data Interchange
- INCITS 385-2004 – Information Technology – Face Recognition Format for Data Interchange
- INCITS 395-2005 – Information Technology – Signature and Sign Based Format for Data Interchange
- INCITS 396-2005 – Information Technology – Hand Geometry Interchange Format

4.2. Related Standards Activity

- Biometric Identity Assurance Services (BIAS)
- BioAPI amendment in support of multimodal fusion

4.3. Recommendations for Close Liaison

- BioAPI Consortium
- IBIA

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