

InterNational Committee for Information Technology Standards  
INCITS Secretariat, Information Technology Industry Council (ITI)  
1250 Eye St. NW, Room 200, Washington, DC 20005  
Telephone 202-737-8888; Fax 202-638-4922  
email:incits@itic.org

**M1/05-0329**

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### **Project Proposal**

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

Reply to:

Fernando Podio  
[fernando.podio@nist.gov](mailto:fernando.podio@nist.gov),  
(301) 975-2947

**M1/05-0329**

**Project Proposal**

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

**1. Source of the Proposed Project**

**1.1. Title**

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

**1.2. Date Submitted**

June 9, 2005

**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 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 Data 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 January 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 amendment is intended to correct any technical errors/clarifications noted in the alleged defect report posted in the M1 document register as document M1/05-0328 as well as to including required clarifications to further help users and developers of these data structures.

#### **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. This amendment will correct any technical errors discovered by members of the CBEFF Team that originally published the CBEFF specification as NISTIR 6529-A and also users and developers that are encoding/decoding CBEFF data structures and will help new developers that need to encode/decode these structures.

### **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 biometric in support of preventing ID theft and other government and commercial applications drive the anticipated larger potential market. Development of this amendment 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 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 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 396-2005 – Information Technology – Hand Geometry Interchange Format

### **4.2. Related Standards Activity**

INCITS 395-200x – Information Technology – Signature and Sign Based Format for Data Interchange (1603-D)

### **4.3. Recommendations for Close Liaison**

INCITS Technical Committees B10 and CS1

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
- Not Measurement Sensitive