

InterNational Committee for Information Technology Standards
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Project Proposal:

Revision of ANSI INCITS 398-2008 - Information technology - Common Biometric Exchange Formats Framework (CBEFF)

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Project Proposal

Revision of ANSI/INCITS 398-2008 - Information technology - Common Biometric Exchange Formats Framework (CBEFF)

1. Source of the Proposed Project

1.1. Title

Revision of ANSI INCITS 398-2008 - Information technology - Common Biometric Exchange Formats Framework (CBEFF)

1.2. Date Submitted

April 11, 2008

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 398-2008.

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 1Q 2009.

2.8. Estimated Useful Life of Standard

ANSI INCITS 398-2008 has an estimated life of 5 years. This revision will extend the life by at least three additional years.

3. Business Case for Developing the Proposed Standard

3.1. Description

This project will add support to CBEFF for more detailed biometric quality information. The proposed revision will also correct technical errors and incorporate modifications noted by users and implementers of the standard, as well as clarifications to further help new users and developers of these data structures.

3.2. Existing Practice and the Need for a Standard

ANSI INCITS 398-2008 is recommended by the INCITS M1 biometric data interchange standards as a data structure to transport biometric data and metadata. INCITS 398 is currently being used in US Federal government requirements as well as several international applications and systems. This revision will correct technical and editorial errors discovered by users and developers that are encoding/decoding CBEFF data structures, will help new developers that need to encode/decode these structures, and will support additional technical requirements related to biometric quality description as requested by the user community.

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 revision 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

- ISO/IEC 19785.1, Common Biometric Exchange Formats Framework – Part 1: Data Element Specification
- ISO/IEC 19785.2, Common Biometric Exchange Formats Framework: Part 2: Procedures for the Operation of the Biometric Registration Authority
- ISO/IEC 19785.3, Common Biometric Exchange Formats Framework: Part 3: Patron Format Specifications
- ANSI INCITS 358-2002, BioAPI
- ANSI INCITS 358-2002 Am. 1, BioAPI
- ISO/IEC 19784.1, BioAPI

4.2. Related Standards Activity

- ISO/IEC 24708, BIP

4.3. Recommendations for Close Liaison

- 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