

US Contribution to JTC 1 SC 37 on an NP for an Application Profile – Interoperability and Data Interchange – Biometrics-Based Verification and Identification for Border Crossing Applications

PROPOSAL FOR A NEW WORK ITEM

Date of presentation of proposal: To Be Determined	Proposer: ISO/IEC JTC 1/SC 37 Biometrics
Secretariat: USA (ANSI)	ISO/IEC JTC 1 SC 37 N XXXX

A proposal for a new work item shall be submitted to the secretariat of the ISO/IEC joint technical committee concerned with a copy to the ISO Central Secretariat.

Presentation of the proposal - to be completed by the proposer. Guidelines for proposing and justifying a new work item are given in ISO Guide 26.

Title: Application Profile – Interoperability and Data Interchange – Biometrics-Based Verification and Identification for Border Crossing Applications

Scope This proposed Application Profile will define the functional requirements for biometrics-based verification and identification of persons within border crossing applications and systems and will reference the use of specific requirements and/or options in relevant base standards in order to provide for biometric interoperability and data interchange in border crossing systems.

Purpose and justification In the post September 11, 2001 environment, interoperability and data interchange in biometrics-based border crossing verification and identification systems are critical to increasing security and supporting the evolution of new and improved systems. Border crossing systems are the individual responsibility of each nation, but many nations will want to develop or acquire systems that interoperate with other nations' systems. Also, since both policy and technology evolve, it is important that earlier systems be developed according to well designed technical standards and methods of original data capture so as to accommodate interoperability with later, improved systems. The existence of this Application Profile will also facilitate policy decisions that can reference a fixed (or thoughtfully evolving) standard defining the technological functions and interoperability of biometrics-based personal verification and identification.

Programme of work

If the proposed new work item is approved, which of the following document(s) is (are) expected to be developed?

- X** a single International Standard more than one International Standard (expected number:)
- a multi-part International Standard consisting of parts
- an amendment or amendments to the following International Standard(s)
- a technical report , type

Relevant documents to be considered See attached list.

Cooperation and liaison

- International Civil Aviation Organization (ICAO) Technical Advisory Group on Machine Readable Travel Documents
- ISO/IEC JTC 1 Subcommittees 17, 27, 29
- ISO TC 68
- NIST/BC Biometric Interoperability, Performance and Assurance WG
- BioAPI Consortium
- International Biometric Industry Association (IBIA)
- The Biometric Foundation (TBF)

Preparatory work offered with target date(s): To be distributed prior to first meeting on this subject

Signature:

Will the service of a maintenance agency or registration authority be required?NO.....

- If yes, have you identified a potential candidate?

- If yes, indicate name

Are there any known requirements for coding?NO.....

-If yes, please specify on a separate page

Are there any known requirements for cultural and linguistic adaptability? ...NO....

- If yes, please specify on a separate page

Does the proposed standard concern known patented items?NO.....

- If yes, please provide full information in an annex

Comments and recommendations of the JTC 1 Secretariat - attach a separate page as an annex, if necessary

Comments with respect to the proposal in general, and recommendations thereon:

It is proposed to assign this new item to ISO/IEC JTC 1/SC 37.

Voting on the proposal - Each P-member of the ISO/IEC joint technical committee has an obligation to vote within the time limits laid down (normally three months after the date of circulation).

Date of circulation: YYYY-MM-DD	Closing date for voting: YYY-MM-DD	Signature of JTC 1/SC37 Secretary: Lisa A. Rajchel
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NEW WORK ITEM PROPOSAL - PROJECT ACCEPTANCE CRITERIA		
Criterion	Validity	Explanation
A Business Requirement		
A.1 Market Requirement	Essential <input checked="" type="checkbox"/> Desirable ___ Supportive ___	The events of September 11, 2001 led to much ongoing discussion and reconsideration of border crossing systems at both the policy and technology levels. A central element of such discussions is the adoption of biometrics-based verification and identification of at least some portion of the border-crossing population. In addition to discussions within government agencies and in the media, commercial companies are already developing and selling systems that include biometrics-based capabilities. Policy decisions, purchasing and planning decisions, and commercial product development will all benefit from the existence of an application profile that addresses the interoperability and data-interchange functions of border crossing systems that incorporate biometrics-based verification and identification.
A.2 Regulatory Context	Essential ___ Desirable ___ Supportive <input checked="" type="checkbox"/> Not Relevant ___	
B. Related Work		
B.1 Completion/Maintenance of current standards	Yes <input checked="" type="checkbox"/> No ___	See attached list.
B.2 Commitment to other organization	Yes ___ No <input checked="" type="checkbox"/>	
B.3 Other Source of standards	Yes ___ No <input checked="" type="checkbox"/>	
C. Technical Status		
C.1 Mature Technology	Yes <input checked="" type="checkbox"/> No ___	The generic biometric technologies are mature.
C.2 Prospective Technology	Yes ___ No <input checked="" type="checkbox"/>	
C.3 Models/Tools	Yes ___ No <input checked="" type="checkbox"/>	
D. Conformity Assessment and Interoperability		
D.1 Conformity Assessment	Yes <input checked="" type="checkbox"/> No ___	This Application Profile could provide a 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 presently unknown. The possible testing environment may range from the use of suppliers' declarations to third party testing.
D.2 Interoperability	Yes <input checked="" type="checkbox"/> No ___	This Application Profile could provide a 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 presently unknown. The possible testing environment may range from the use of suppliers' declarations to third party testing.
E. Other Justification		

Notes to Proforma

A. Business Relevance. That which identifies market place relevance in terms of what problem is being solved and or need being addressed.

- A.1. Market Requirement. When submitting a NP, the proposer shall identify the nature of the Market Requirement, assessing the extent to which it is essential, desirable or merely supportive of some other project.
- A.2 Technical Regulation. If a Regulatory requirement is deemed to exist - e.g. for an area of public concern e.g. Information Security, Data protection, potentially leading to regulatory/public interest action based on the use of this voluntary international standard - the proposer shall identify this here.
- B. Related Work. Aspects of the relationship of this NP to other areas of standardization work shall be identified in this section.
- B.1 Competition/Maintenance. If this NP is concerned with completing or maintaining existing standards, those concerned shall be identified here.
- B.2 External Commitment. Groups, bodies, or fora external to JTC1 to which a commitment has been made by JTC for cooperation and or collaboration on this NP shall be identified here.
- B.3 External Std/Specification. If other activities creating standards or specifications in this topic area are known to exist or be planned, and which might be available to JTC1 as PAS, they shall be identified here.
- C. Technical Status. The proposer shall indicate here an assessment of the extent to which the proposed standard is supported by current technology.
- C.1 Mature Technology. Indicate here the extent to which the technology is reasonably stable and ripe for standardization.
- C.2 Prospective Technology. If the NP is anticipatory in nature based on expected or forecasted need, this shall be indicated here.
- C.3 Models/Tools. If the NP relates to the creation of supportive reference models or tools, this shall be indicated here.
- D. Any other aspects of background information justifying this NP shall be indicated here.
- D. Conformity Assessment and Interoperability
- D.1 Indicate here if Conformity Assessment is relevant to your project. If so, indicate how it is addressed in your project plan.
- D.2 Indicate here if Interoperability is relevant to your project. If so, indicate how it is addressed in your project plan.

Attachment - Relevant documents to be considered

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 interchange of data between applications and interoperability of conforming systems. Base standards to be considered in this Application Profile include:

1. ICAO (International Civil Aviation Organization) Document 9303, Machine Readable Travel Documents
2. Biometric Data Interchange Formats (It is anticipated that JTC 1 SC 37 projects for the development of base standards for Biometric Data Interchange Formats for Fingerprint, Iris, and Face will be initiated concurrently to this project.)
3. Common Biometric Exchange File Format (CBEFF), NISTIR 6529-2001 (An augmented version of CBEFF is under development by the NIST/BC Biometric Working Group.)
4. ANSI/INCITS 358-2002 - Information technology - BioAPI Specification
5. ANSI/NIST-ITL 1-2000, Standard Data Format for the Interchange of Fingerprint, Facial, & Scar mark & Tattoo (SMT) Information
6. ANSI/X9 X9.84-2001 - Biometric information management and security (presently under revision)
7. ISO/IEC 10918 - Information technology - Digital Compression and coding of continuous-tone still images (JPEG) (Parts 1-4)
8. ISO/IEC 15444 - Information technology - JPEG 2000 Image Coding System (Parts 1-10)
9. Federal Information Processing Standard (FIPS) - FIPS 197 Advanced Encryption Standard (AES) - November 2001
10. ISO/IEC WD 18033 - Information technology - Security techniques - Encryption algorithms (Parts 1-3)
11. 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
12. BSR INCITS 359 - Information technology - Role-Based Access Control
13. Government Smart Card Interoperability Specification, NISTIR 6887
14. Communication standards, such as the IETF RFCs for TCP/IP
15. Other base standards - to be determined