

ISO/IEC JTC1/SC17
Cards and personal identification

2002-03-27

ISO/IEC JTC1/SC17 N 2094

DOCUMENT TYPE : NP BALLOT

TITLE: **Ballot - Proposal for a New Work Item** – Personal identification - Machine-Assisted identity confirmation- Logical Data Structure (LDS) for Identification documents and cards

BACKWARD POINTER: N 2092

SOURCE: SECRETARIAT ISO/IEC JTC1/SC17

STATUS: For NP ballot for development as a **Type 2 Technical Report.**

ACTION ID: ACT

WORK ITEM:

DUE DATE: 2002-06-27

DISTRIBUTION P and L-Members of ISO/IEC JTC1/SC17
JTC1 Secretariat
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PROPOSAL FOR A NEW WORK ITEM

Date of presentation of proposal: 2002-03-27	Proposer: ISO/IEC JTC 1/SC 17
Secretariat: ISO/IEC JTC1/SC17 National Body APACS for BSI	ISO/IEC JTC 1 N 2094

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 Personal identification - Machine-Assisted identity confirmation- Logical Data Structure (LDS) for Identification documents and cards

Scope See attached.

Purpose and justification - attach a separate page as annex, if necessary – **See attached Additional Information**

Programme of work

If the proposed new work item is approved, which of the following document(s) is (are) expected to be developed?
 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 **Type 2 Technical Report (to be raised to full IS status later)**

Relevant documents to be considered: SC17 Standards for Cards, ICAO Doc 9303, Parts 1 thru 3; ISO/IEC 7501-1, 7501-2, and 7501-3; BioAPI Specification; and Common Biometric Exchange File Format (CBEFF).

Cooperation and liaison – International Civil Aviation Organization (ICAO), SC17 WG1, WG3, WG4, WG8, WG9 and WG10

Preparatory work offered with target date(s) **To be distributed in advance of first meeting**

Signature: *Freda Bennett*

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?

-If yes, please specify on a separate page

Are there any known requirements for cultural and linguistic adaptability?

- 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 JTC 1/SC 17

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: 2002-03-27	Closing date for voting: 2002-06-27	Signature of JTC 1/SC17 Secretary: <i>Freda Bennett</i>
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NEW WORK ITEM PROPOSAL - PROJECT ACCEPTANCE CRITERIA		
Criterion	Validity	Explanation
A Business Requirement		
A.1 Market Requirement	Essential X Desirable ___ Supportive ___	See Attached
A.2 Regulatory Context	Essential ___ Desirable ___ Supportive ___ Not Relevant ___	
B. Related Work		
B.1 Completion/Maintenance of current standards	Yes X No ___	See Attached

B.2 Commitment to other organization	Yes ____ No ____	
B.3 Other Source of standards	Yes ____ No ____	
C. Technical Status		
C.1 Mature Technology	Yes X No ____	
C.2 Prospective Technology	Yes ____ No ____	
C.3 Models/Tools	Yes ____ No ____	
D. Conformity Assessment and Interoperability		
D.1 Conformity Assessment	Yes ____ No ____	
D.2 Interoperability	Yes X No ____	
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.

SCOPE

This Technical Report specifies an initial test version of a globally interoperable logical data structure (LDS) for recorded identity details (biometric data) to be used to enable confirmation of the presenter of an identification document or card as the rightful holder using machine-assisted means.

The Technical Report will enable immediate scenario testing of machine-assisted identity confirmation with identification documents or cards including passports, visas or official documents of identity as defined in ISO 7501 Parts 1, 2 and 3.

The LDS must:

- a. Support both random and sequential access of identity details;
- b. Support expandability of recorded identity details to allow updates to be recorded and/or additional types of biometric identity details to be added during the validity period of the document/card;
- c. Enable successful application to magnetic stripe, IC(s) with contacts, contactless IC(s), optical memory and 2-D bar code identification document/card based technologies;
- d. Offer a degree of flexibility to enable use with new generation data storage and/or on-board computational identification document/card technologies.
- e. Support the possibility of separating fixed and dynamic identity details between two coexistent identification document/card technologies; *e.g.* fixed data recorded in unchangeable optical memory and dynamic data recorded in IC(s) with contacts or contactless IC(s); *and*
- f. Support the ability to confirm the authenticity of the identity details as those recorded by the issuing authority, as well as, the ability to detect any unauthorized changes.

This Technical Report also establishes a unique set of Tags to support recording and recall of identity details from identification documents/cards using Tag-Length-Value encoding and retrieval schemes.

Additional Information on this Type 2 Technical Report and its future development as an International Standard

Since:

- The output of the NP is required now;
- Type 2 Technical reports are "Normative" and therefore can contain requirements;
- There is the intention to promote the final Technical Report to full International Standard status as soon as scenario testing is completed;

it has been decided to initially develop this work item as Type 2 Technical Report and raise it full International Standard status as soon as possible following its publication.

The events of September 11, 2001 underscore the urgent need to better identify persons attempting to secure or present an official document of identity, for the purpose of boarding an aircraft or seeking entry to a country to which, if their real identity was known, would either deny entry or possibly even detain the presenter.

SC17 through its Working Group 3 has been developing a comprehensive logical data structure of document and holder related details for advanced technologies coexisting on machine readable travel documents. A critical component of the comprehensive logical data structure developed over the last two years is identity details which are designed to enable successful identification of the rightful holder. This work is in support of ongoing liaison activities undertaken on behalf of JTC1 with the International Civil Aviation Organization (ICAO), a United Nations based organization.

Contracting States to ICAO have expressed an urgent need, in light of the events of September 11, 2001 to have SC17 provide them with a globally interoperable test version of the LDS, one in which recorded identity details would allow immediate implementation and testing of machine-assisted identity confirmation of the presenter of a passport, visa or official document of identity as the rightful holder during inspection by border control authorities, as well as, travel related checking by airline staff.

While specifications exist that can be used to provide valuable guidance on developing a LDS for identity details, no one specification currently exists that meets the comprehensive set of unique needs defined for machine assisted identity confirmation when presenting an identification document or card.

Based on successful scenario testing of this initial test version it is intended to evolve the LDS into an International Standard for recorded identity details used to support machine-assisted identity confirmation of the rightful holder during presentation of an identification document or card.

This Technical Report and its proposed development as an International Standard will complete the initial ISO/IEC series of standards 7501 dealing with machine readable travel documents though further work items may arise in the future. It also supports the development of new international standard for driver licenses.