

**ISO/IEC JTC 1
Information Technology**

Document Type: New Work Item Proposal

Document Title: Proposal for a New Work Item on ISO/IEC 29109–2 AMD 1: Level 3 Conformance Testing for Finger Minutiae Data

Document Source: SC 37 Secretariat

Reference:

Document Status: This document is circulated to JTC 1 National Bodies for concurrent review. If the JTC 1 Secretariat receives no objections to this proposal by the due date indicated, we will so inform the SC 37 Secretariat

Action ID: Act

Due Date: 2009-11-10

No. of Pages: 6

ISO/IEC JTC 1/SC 37 N 3312

2009-08-08

ISO/IEC JTC 1/SC 37 Biometrics

Document Type: proposal for a new work item

Document Title: Proposal for a New Work Item on ISO/IEC 29109–2 AMD 1: Level 3 Conformance Testing for Finger Minutiae Data

Source: SC 37 Secretariat

Document Status: This document is circulated to SC 37 national Bodies for a three month letter ballot. It is forwarded to JTC 1 for concurrent review.

Action ID: VOTE

Due Date: 2009-11-10

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PROPOSAL FOR A NEW WORK ITEM

Date of presentation of proposal: 2009-07-14	Proposer: ISO/IEC JTC 1/SC 37
Secretariat: SC37	ISO/IEC JTC 1 N XXXX ISO/IEC JTC 1/SC 37N3312

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. .

Title ISO/IEC 29109-2 AMD 1: Level 3 Conformance Testing for Finger Minutiae Data
Scope (and field of application) Methods for developing a database of minutia, core and delta with ground truth placement mark-up (including techniques to merge different experts' assessments into one ground-truth). Methods for measuring accuracy of minutia, core and delta detection, placement, type and angle based on the ground truth. Methods for assessing semantic conformance (including estimation of rates) and their effect on interoperability (including comparison performance).
Purpose and justification – The purpose of this AMD is to define a method for Level 3 Conformance testing for finger minutiae data to improve interoperability and to ensure, that a record (minutiae template) is a truthful representation of the input (fingerprint image).
Programme of work If the proposed new work item is approved, which of the following document(s) is (are) expected to be developed? <input type="checkbox"/> a single International Standard <input type="checkbox"/> more than one International Standard (expected number:) <input type="checkbox"/> a multi-part International Standard consisting of parts <input checked="" type="checkbox"/> an amendment or amendments to the following International Standard(s) .29109-2..... <input type="checkbox"/> a technical report , type And which standard development track is recommended for the approved new work item? <input checked="" type="checkbox"/> a. Default Timeframe <input type="checkbox"/> b. Accelerated Timeframe <input type="checkbox"/> c. Extended Timeframe
Relevant documents to be considered ISO/IEC SC 37 N 3058
Co-operation and liaison SC 37 Working Group 3
Preparatory work offered with target date(s)
Signature: Lisa Rajchel

Will the service of a maintenance agency or registration authority be required?YES.....

- 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

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

- If yes, please provide full information in an annex

Are there any known accessibility requirements and/or dependencies (see: <http://www.jtc1access.org>)?.....

-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

Comments and recommendations of the JTC 1 or SC 37 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 37/WG 3

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: 2009-08-08	Closing date for voting: 2009-11-10	Signature of Secretary: Lisa Rajchel
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NEW WORK ITEM PROPOSAL - PROJECT ACCEPTANCE CRITERIA		
Criterion	Validity	Explanation
A. Business Requirement		
A.1 Market Requirement	Essential <u> X </u> Desirable ____ Supportive ____	
A.2 Regulatory Context	Essential ____ Desirable ____ Supportive ____ Not Relevant ____	
B. Related Work		
B.1 Completion/Maintenance of current standards	Yes ____ No ____	
B.2 Commitment to other organisation	Yes ____ No <u> X </u>	
B.3 Other Source of standards	Yes ____ No ____	
C. Technical Status		

C.1 Mature Technology	Yes ____ No ____	
C.2 Prospective Technology	Yes _X_ No ____	
C.3 Models/Tools	Yes __X_ No ____	
D. Conformity Assessment and Interoperability		
D.1 Conformity Assessment	Yes _X_ No ____	
D.2 Interoperability	Yes __X_ No ____	
E. Adaptability to Culture, Language, Human Functioning and Context of Use		
E.1 Cultural and Linguistic Adaptability	Yes ____ No ____ X ____	
E.2 Adaptability to Human Functioning and Context of Use	Yes ____ No ____ X ____	
F. 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 standardisation 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 for external to JTC 1 to which a commitment has been made by JTC for Co-operation 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 JTC 1 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 standardisation.

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. Conformity Assessment and Interoperability Any other aspects of background information justifying this NP shall be indicated here.

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

E. Adaptability to Culture, Language, Human Functioning and Context of Use

NOTE: The following criteria do not mandate any feature for adaptability to culture, language, human functioning or context of use. The following criteria require that if any features are provided for adapting to culture, language, human functioning or context of use by the new Work Item proposal, then the proposer is required to identify these features.

E.1 Cultural and Linguistic Adaptability. Indicate here if cultural and natural language adaptability is applicable to your project. If so, indicate how it is addressed in your project plan.

ISO/IEC TR 19764 (Guidelines, methodology, and reference criteria for cultural and linguistic adaptability in information technology products) now defines it in a simplified way:

“ability for a product, while keeping its portability and interoperability properties, to:

- be internationalized, that is, be adapted to the special characteristics of natural languages and the commonly accepted rules for their use, or of cultures in a given geographical region;**
- take into account the usual needs of any category of users, with the exception of specific needs related to physical constraints”**

Examples of characteristics of natural languages are: national characters and associated elements (such as hyphens, dashes, and punctuation marks), writing systems, correct transformation of characters, dates and measures, sorting and searching rules, coding of national entities (such as country and currency codes), presentation of telephone numbers and keyboard layouts. Related terms are localization, jurisdiction and multilingualism.

E.2 Adaptability to Human Functioning and Context of Use. Indicate here whether the proposed standard takes into account diverse human functioning and diverse contexts of use. If so, indicate how it is addressed in your project plan.

NOTE:

1. Human functioning is defined by the World Health Organization at <http://www3.who.int/icf/beginners/bg.pdf> as:
<<In ICF (*International Classification of Functioning, Disability and Health*), the term *functioning* refers to all body functions, activities and participation.>>
2. Content of use is defined in ISO 9241-11:1998 (*Ergonomic requirements for office work with visual display terminals (VDTs) – Part 11: Guidance on usability*) as:
<<Users, tasks, equipment (hardware, software and materials), and the physical and societal environments in which a product is used.>>
3. Guidance for Standard Developers to address the needs of older persons and persons with disabilities).

F. Other Justification Any other aspects of background information justifying this NP shall be indicated here.