

**ISO/IEC JTC 1  
Information Technology**

**Document Type:** NP Ballot

**Document Title:** NP Ballot – ISO/IEC 24727-4 – Identification cards – Integrated circuit card programming interfaces – Part 4: Application programming interface (API) administration: AMD-1 ASN.1 Representations

**Document Source:** SC 17

**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 17 Secretariat

**Action ID:** ACT

**Due Date:** 2009-09-30

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**ISO/IEC JTC1/SC17 N 3694**

**DOCUMENT TYPE:** NP Ballot

**TITLE:** NP Ballot - ISO/IEC 24727-4 - Identification cards - Integrated circuit card programming interfaces - Part 4: Application programming interface (API) administration: Amd -1 ASN.1 Representations

**BACKWARD POINTER:**

**SOURCE:** US (ANSI)

**STATUS:** NP ballot proposal. For simultaneous ballot with JTC1.

This ballot has been posted to the ISO Electronic balloting application and is available under the Balloting Portal, Committee Internal Balloting.

**ACTION ID:** FYI

**WORK ITEM:** To be supplied by ISO.

**DUE DATE:** 2009-10-01

**DISTRIBUTION:** P and L-Members of ISO/IEC JTC1/SC17  
JTC1 Secretariat  
ISO/IEC ITTF

**MEDIUM:** SERVER

**NO. OF PAGES:** 7

# G3 New Work Item Proposal

**b10.12 2009-00046**

Date: 2009 June 30

## New Work Item Proposal

### PROPOSAL FOR A NEW WORK ITEM

Date of presentation of proposal: 2009-06-30	Proposer: ANSI
Secretariat: SC17 National Body: UK (BSI)	ISO/IEC JTC 1 N XXXX ISO/IEC JTC 1/SC 17 N 3694

**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.

<b>Title</b> ISO/IEC 24727-4:Amd-1 ASN.1 Representations
<b>Scope</b> This Amendment will provide ASN.1 (ISO/IEC 8824) representations of the APIs and data structures (e.g. the Trusted Channel and Interface Device (IFD) APIs) that are currently defined in ISO/IEC 24727-4.
<b>Purpose and justification</b> - attach a separate page as annex, if necessary, See Annex A
<b>Programme of work</b>  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 part 5 of the ISO 24727 series <input checked="" type="checkbox"/> an amendment or amendments to the following International Standard(s) .. <b>ISO/IEC 24727-4</b> <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
<b>Relevant documents to be considered</b> ISO/IEC 24727-4 and ISO/IEC 24727-3
<b>Co-operation and liaison</b> N/A
<b>Preparatory work offered with target date(s):</b> WD 2009-May
<b>Signature:</b>

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

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>)?.....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

**Comments and recommendations of the JTC 1 or SC XX 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 XX

**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).

<b>Date of circulation:</b> 2009-06-30	<b>Closing date for voting:</b> 2009-10-01	<b>Signature of Secretary:</b> C I Starr
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<b>NEW WORK ITEM PROPOSAL - PROJECT ACCEPTANCE CRITERIA</b>		
<b>Criterion</b>	<b>Validity</b>	<b>Explanation</b>
<b>A. Business Requirement</b>		
A.1 Market Requirement	Essential <u>X</u> Desirable ____ Supportive ____	ASN.1 representation of 24727-4 APIs and data structures is essential for consistent use throughout the 24727 series of standards.
A.2 Regulatory Context	Essential ____ Desirable <u>X</u> Supportive ____ Not Relevant ____	A normative, programming language-neutral, representation of the APIs and data structures is desirable in the context of conformity assessment, which may be desirable to some regulatory agencies.
<b>B. Related Work</b>		
B.1 Completion/Maintenance of current standards	Yes <u>X</u> No ____	This proposed amendment is a natural completion of the API definitions in ISO/IEC 24727-5 and may now leverage existing ASN.1 published in ISO/IEC 24727-3
B.2 Commitment to other organisation	Yes ____ No <u>X</u>	
B.3 Other Source of standards	Yes ____ No <u>X</u>	
<b>C. Technical Status</b>		
C.1 Mature Technology	Yes <u>X</u> No ____	ASN.1 syntax and encoding rules are standardized by ISO/IEC 8824 and 8825
C.2 Prospective Technology	Yes ____ No <u>X</u>	

C.3 Models/Tools	Yes <u>  X  </u> No <u>      </u>	An ASN.1 representation of the API and data structures provides a basis for future language-specific derivative bindings.  Multiple, mature, compilers and language-specific toolkits for ASN.1 are available in the marketplace.
<b>D. Conformity Assessment and Interoperability</b>		
D.1 Conformity Assessment	Yes <u>  X  </u> No <u>      </u>	See A.1 and A.2, above.
D.2 Interoperability	Yes <u>  X  </u> No <u>      </u>	See A.1 and A.2, above.
<b>E. Adaptability to Culture, Language, Human Functioning and Context of Use</b>		
E.1 Cultural and Linguistic Adaptability	Yes <u>      </u> No <u>  X  </u>	N/A
E.2 Adaptability to Human Functioning and Context of Use	Yes <u>      </u> No <u>  X  </u>	N/A
<b>F. Other Justification</b>		

## **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 fora 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**

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



## **Annex A: Purpose and Justification**

In drafting the various APIs and data structures throughout the ISO/IEC 24727 development process, ISO/IEC JTC1/SC17/WG4 has standardized on the use of ASN.1 as the normative, programming language-neutral, representation of the APIs and data structures of this series of standards.

This amendment completes the ASN.1 representations of the APIs and data structures in ISO/IEC 24727 by adding these representations as normative annexes to ISO/IEC 24727-4.

A Working Draft will be available immediately upon a successful ballot of this NWI Proposal.