



**IMPORTANT NOTE:** Approval is also requested to advance this proposed Amendment directly to the DIS stage. See section 3.3.2 of the voting form (ISO Form 5).

<b>NEW WORK ITEM PROPOSAL</b>	
Date of presentation <b>2003-08-15</b>	Reference number (to be given by the Secretariat) <b>ISO/TC 46 / SC 9 N 368</b>
Proposer <b>TC46/SC9 Secretariat</b>	
Secretariat <b>SCC</b>	<b>ISO 15706:2002 Draft Amendment 1</b>

A proposal for a new work item within the scope of an existing committee shall be submitted to the secretariat of that committee with a copy to the Central Secretariat and, in the case of a subcommittee, a copy to the secretariat of the parent technical committee. Proposals not within the scope of an existing committee shall be submitted to the secretariat of the ISO Technical Management Board.

The proposer of a new work item may be a member body of ISO, the secretariat itself, another technical committee or subcommittee, or organization in liaison, the Technical Management Board or one of the advisory groups, or the Secretary-General.

The proposal will be circulated to the P-members of the technical committee or subcommittee for voting, and to the O-members for information.

**Proposal** (to be completed by the proposer)

<b>Title of proposal</b> (in the case of an amendment, revision or a new part of an existing document, show the reference number and current title)	
English title	<b>Information and documentation – International Standard Audiovisual Number (ISAN) – AMENDMENT 1: Alternate encodings</b>
French title (if available)	<b>Information et documentation – Numéro international normalisé d'oeuvre audiovisuelle (ISAN) – AMENDEMENT 1: Encodages alternatifs</b>
<b>Scope of proposed project</b>	
This amendment clarifies the encoding of ISAN as a 64 bit number and provides binary and XML encoding specifications for ISAN. The changes proposed in this Amendment do not alter any other provisions of ISO 15706.	
<b>Concerns known patented items</b> (see ISO/IEC Directives Part 1 for important guidance)	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    If "Yes", provide full information as annex	
<b>Envisaged publication type</b> (indicate one of the following, if possible)	
<input checked="" type="checkbox"/> International Standard <input type="checkbox"/> Technical Specification <input type="checkbox"/> Publicly Available Specification <input type="checkbox"/> Technical Report	
<b>Purpose and justification</b> (attach a separate page as annex, if necessary)	
The specifications in this Amendment are required to ensure correct encoding of the ISAN in computer applications. It is necessary for implementation of the ISAN.	
<b>Target date for availability:</b> As soon as possible; no later than 2 <sup>nd</sup> quarter of 2004.	
<b>Relevant documents to be considered</b>	
ISO 15706:2002	
<b>Relationship of project to activities of other international bodies</b>	
Affects implementation of the ISAN in computer applications.	
<b>Liaison organizations</b>	<b>Need for coordination with:</b>
AGICOA, SMTPE, FIAPF, CISAC.	<input type="checkbox"/> IEC <input type="checkbox"/> CEN <input type="checkbox"/> Other (please specify)
<b>Preparatory work</b> (at a minimum an outline should be included with the proposal)	
<input checked="" type="checkbox"/> A draft is attached <input type="checkbox"/> An outline is attached. It is possible to supply a draft by	
The proposer or the proposer's organization is prepared to undertake the preparatory work required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Proposed Project Leader</b> (name and address)	<b>Name and signature of the Proposer</b> (include contact information)
ISO/TC46/SC9 Secretariat (on behalf of TC46/SC9 Working Group 1) E-mail: iso.tc46.sc9@nlc-bnc.ca	Jane Thacker, ISO/TC46/SC9 Secretary (on behalf of TC46/SC9 Working Group 1)

**Comments of the TC or SC Secretariat**

**Supplementary information relating to the proposal**

- This proposal relates to a new ISO document;
- This proposal relates to the amendment/revision of an existing ISO document;
- This proposal relates to the adoption as an active project of an item currently registered as a Preliminary Work Item;
- This proposal relates to the re-establishment of a cancelled project as an active project.

Other:

**Voting information**

The ballot associated with this proposal comprises a vote on:

- Adoption of the proposal as a new project
- Adoption of the associated draft as a committee draft (CD)  
(see ISO Form 5, question 3.3.1)
- Adoption of the associated draft for submission for the enquiry vote (DIS or equivalent)  
(see ISO Form 5, question 3.3.2)

Other:

**Annex(es) are included with this proposal** (give details)

- Attached is a completed draft of the proposed Amendment 1 to ISO 15706:2002. The attached draft was prepared and unanimously agreed to by ISO/TC46/SC9/WG1 which was responsible for developing ISO 15706.

Date of circulation <b>2003-08-15</b>	Closing date for voting <b>2003-10-15</b>	Signature of the TC or SC Secretary <i>[original signed by:]</i> <b>Jane Thacker</b> <b>Secretary, ISO/TC46/SC9</b>
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**ISO TC 46/ SC 9 N 368**

Date: 2003-08-15

**ISO 15706:2002/DAM 1**

ISO TC 46/SC 9

Secretariat: SCC

## **Information and documentation — International Standard Audiovisual Number (ISAN)**

### **AMENDMENT 1** Alternate encodings

*Information et documentation — Numéro international normalisé d'oeuvre audiovisuelle (ISAN)*

*AMENDEMENT 1*  
*Encodages alternatifs*

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Document type: International Standard  
Document subtype: Amendment  
Document stage: 10.20 (Proposal)  
Document language: E

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## Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to ISO 15706:2002 was prepared by Technical Committee ISO/TC 46, *Information and documentation*, Subcommittee SC 9, *Identification and description*, Working Group WG 1, *ISAN and V-ISAN*.

# Information and documentation — International Standard Audiovisual Number (ISAN)

## AMENDMENT 1 Alternate encodings

This amendment clarifies the encoding of ISAN as a 64 bit number and provides binary and XML encoding specifications for ISAN.

*Page iii, Foreword*

Replace the last paragraph with the following:

"Annexes A, B, C, E and F form a normative part of this International Standard. Annex D is for information only."

*Page 2, subclause 4.1*

Replace subclause 4.1 with the following:

**4.1** An ISAN shall consist of a 64-bit number which when presented in human-readable form (i.e. a form meant primarily to be read or written by a person, in contrast to a form primarily meant to be used by data processing equipment) shall be represented as 16 hexadecimal digits using Arabic numerals 0 through 9 and letters A through F of the Latin alphabet. An ISAN shall be divided into two segments consisting of a 12 digit root segment followed by a 4 digit segment for the identification of episodes or parts of a serial audiovisual work (see A.11). A check character (see Annex B) shall be appended whenever an ISAN is presented in human-readable form.

EXAMPLE ISAN RRRR-RRRR-RRRR-EEEE-X

Additional encodings of ISAN are specified in Annexes E and F."

*Page 3, subclause 6.5*

Replace subclause 6.5 with the following:

**6.5** The characters A through F appearing in an ISAN and A through Z appearing in its check digit should be displayed in upper-case letters when the ISAN is presented in human-readable form. However, the lower-case and upper-case forms of these characters shall be treated as equivalent."

*Page 6, Annex B*

Replace clause B.4 with the following:

**B.4** Validation of an ISAN being entered into or retrieved from a database or other machine-readable format by a human shall require the correct check character for that ISAN to be verified or presented."

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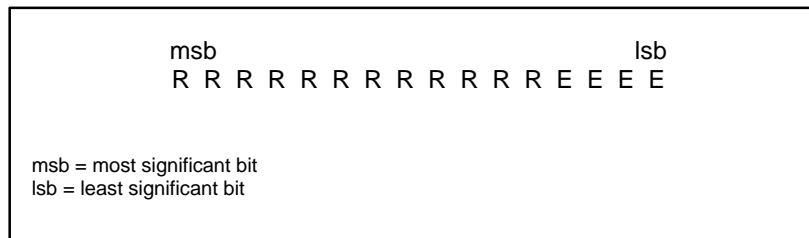
Add the following new annex E before the Bibliography:

## Annex E (normative)

### Binary encoding of ISAN

**E.1** The ISAN in human-readable form consists of 16 hexadecimal digits as defined in clause 4. When represented in a binary, machine-readable form, it shall be encoded as 64 binary bits with the leading letters, "ISAN", and trailing check digit that are used in the human-readable form omitted. The 64 bits are encoded and transmitted as an unsigned integer, most significant bit first (*uimsbf*, as used in ISO/IEC 13818-1). This is illustrated in Figure E.1 below.

**Figure E.1 — Binary encoding of ISAN**



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Add the following new annex F before the Bibliography:

## Annex F (normative)

### XML encoding of ISAN

**F.1** The ISAN in human-readable form consists of 16 hexadecimal digits as defined in clause 4. When represented in an XML schema form, it should be encoded in a single tag with two attributes as follows:

```
<ISAN root="rrrr-rrrr-rrrr" episode="eeee" />
```

where rrrr-rrrr-rrrr is the root value and eeee is the episode value, both encoded the same as for the human-readable form, omitting the leading letters, "ISAN", and the trailing check digit.