DRAFT INTERNATIONAL STANDARD ISO/IEC 7501-1

Attributed to ISO/IEC JTC 1 by the Central Secretariat (see page iii)

Voting begins on
2007-02-14

Voting terminates on
2007-07-14

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION
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FAST-TRACK PROCEDURE

Identification cards — Machine readable travel documents —

Part 1:
Machine readable passport

[Revision of fourth edition (ISO/IEC 7501-1:2005)]

Cartes d'identification — Documents de voyage lisibles par machine —

Partie 1: Passeport lisible par machine

ICS 35.240.15

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NOTE FROM ITTF

This draft International Standard is submitted for JTC 1 national body vote under the Fast-Track Procedure.

In accordance with Resolution 30 of the JTC 1 Berlin Plenary 1993, the proposer of this document recommends assignment of ISO/IEC 7501-1 to JTC 1/SC 17.

"FAST-TRACK" PROCEDURE

1 Any P-member and any Category A liaison organization of ISO/IEC JTC 1 may propose that an existing standard from any source be submitted directly for vote as a DIS. The criteria for proposing an existing standard for the fast-track procedure are a matter for each proposer to decide.

2 The proposal shall be received by the ITTF which will take the following actions.

2.1 To settle the copyright and/or trade mark situation with the proposer, so that the proposed text can be freely copied and distributed within JTC 1 without restriction.

2.2 To assess in consultation with the JTC 1 secretariat which SC is competent for the subject covered by the proposed standard and to ascertain that there is no evident contradiction with other International Standards.

2.3 To distribute the text of the proposed standard as a DIS. In case of particularly bulky documents the ITTF may demand the necessary number of copies from the proposer.

3 The period for combined DIS voting shall be six months. In order to be accepted the DIS must be supported by 75 % of the votes cast (abstention is not counted as a vote) and by two-thirds of the P-members voting of JTC 1.

4 At the end of the voting period, the comments received, whether editorial only or technical, will be dealt with by a working group appointed by the secretariat of the relevant SC.

5 If, after the deliberations of this WG, the requirements of 3 above are met, the amended text shall be sent to the ITTF by the secretariat of the relevant SC for publication as an International Standard.

If it is impossible to agree to a text meeting the above requirements, the proposal has failed and the procedure is terminated.

In either case the WG shall prepare a full report which will be circulated by the ITTF.

6 If the proposed standard is accepted and published, its maintenance will be handled by JTC 1.

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FORWARD

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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 the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national 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 and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 7501-1 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology, Subcommittee SC 17, Cards and personal identification*.

This fifth edition cancels and replaces the fourth edition (ISO/IEC 7501-1:2005).

ISO/IEC 7501 consists of the following parts, under the general title *Identification cards – Machine readable travel documents:*

— *Part 1: Machine readable passport*

— *Part 2: Machine readable visa*

— *Part 3: Machine readable official travel documents*

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Identification cards — Machine readable travel documents —

Part 1:
Machine readable passport

The following document is adopted as ISO/IEC International Standard 7501-1:2007:

- **Sixth Edition of the International Civil Aviation Organization (ICAO) Document; i.e. Doc 9303 Part 1 - Machine Readable Passports**; specifically,

  From **Volume 1 – Passports with Machine Readable Data Stored in Optical Character Recognition Format**
  - Section II Technical specifications for machine readable passports – References and definitions
  - Section III Technical specifications for the security of the design, manufacture and issuance of machine readable travel documents *except for the following Informative Appendices to Section III, which are not adopted,*
    - ❑ *Informative Appendix 1 to Section III.* *Security Standards for machine readable travel documents*
    - ❑ *Informative Appendix 2 to Section III.* *Machine-assisted document security verification*
    - ❑ *Informative Appendix 3 to Section III.* *The prevention of fraud associated with the issuance process*
  - Section IV Technical specifications for machine readable passports

  And,

  From **Volume 2 – Specifications for Electronically Enabled Passports with Biometric Identification Capability**
  - Section II The deployment of biometric identification and the electronic storage of data in machine readable passports
  - Section III A logical data structure for contactless integrated circuit data storage technology
  - Section IV PKI for machine readable travel documents offering ICC read only access *except for the following Informative Appendices to Section IV, which are not adopted,*
    - ❑ *Informative Appendix 6 to Section IV.* *Work examples*
    - ❑ *Informative Appendix 7 to Section IV.* *PKI and Security Threats*

  NOTE: ISO/IEC International Standard 7501-1:2007 does not adopt Section I, Introduction from either Volume 1 or Volume 2 of the Sixth Edition of ICAO Doc 9303 Part 1.

ISO/IEC International Standard 7501-1:2007 is intended for use in all applications relating to machine readable passports. It specifies the form and provides guidance on the construction of machine readable passports (MRPs), in particular in relation to those aspects of the MRP where details of the rightful holder are presented in a form which is both visual and machine readable. It equally defines the specifications to be used by States wishing to issue an electronically enabled version of the machine readable passport (ePassport) for secure carriage and access to an expanded set of details, including globally interoperable biometric data for confirming the presenter as the rightful-holder of the ePassport.

ISO/IEC International Standard 7501-1:2007 is based on a Standard established by the International Civil Aviation Organization; ICAO Doc 9303 Part 1. ICAO Doc 9303 Part 1 is maintained by a Technical Advisory Group on Machine Readable Travel Documents (TAG/MRTD). ISO/IEC JTC1 has and continues to provide liaison during the TAG/MRTD meetings on ICAO Doc 9303 Part 1 and considered the technical specifications to which the endorsement notice applies.

Information on the TAG/MRTD for ICAO 9303 Part 1 may be obtained on application to the Secretary General, International Civil Aviation Organization, 999 University Street, Montreal, Quebec, Canada H3C 5H7.

Note - Copies of Sixth Edition of ICAO Doc 9303 Part 1 may be obtained from the international Civil Aviation Organization, 999 University Street, Montreal, Quebec, Canada H3C 5H7.

Technical Specifications defined in ICAO Doc 9303 Part 1 refer to a number of ISO Standards. Specifically,

ISO 1073/II: 1976, *Alphanumeric character sets for optical character recognition — Part 2: Character set OCR-B — Shapes and dimensions of the printed image*

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ISO 1831: 1980, *Printing specifications for optical character recognition*

ISO 3166-1: 1997, *Codes for the representation of names of countries and their subdivisions — Part 1: Country codes*

ISO 3166-2: 1998, *Codes for representation of names of countries and their subdivisions — Part 2: Country subdivision code*

ISO 3166-3: 1999, *Codes for representation of names of countries and their subdivisions — Part 3: Code for formerly used names of countries*

ISO/IEC 7810: 2003, *Identification cards — Physical characteristics*

ISO/IEC 7816-1: 1998, *Identification cards — Integrated circuit(s) cards with contacts — Part 1: Physical characteristics*

ISO/IEC 7816-2: 1998, *Identification cards — Integrated circuit(s) cards with contacts — Part 2: Dimensions and location of the contacts*

ISO/IEC 7816-3: 1997, *Identification cards — Integrated circuit(s) cards with contacts — Part 3: Electronic interface and transmission protocols*

ISO/IEC 7816-4: 2005, *Identification cards — Integrated circuit(s) cards with contacts — Part 4: Organization, security and commands for interchange*

ISO/IEC 7816-5: 2003, *Identification cards — Integrated circuit(s) cards with contacts — Part 5: Registration of application providers*

ISO/IEC 7816-6: 2003, *Identification cards — Integrated circuit(s) cards with contacts — Part 6: Interindustry Data Elements for interchange (Defect report included)*

ISO/IEC 7816-7: 1998, *Identification cards — Integrated circuit(s) cards with contacts — Part 7: Commands for Structured Card Query Language (SCQL)*

ISO/IEC 7816-8: 2003, *Identification cards — Integrated circuit(s) cards with contacts — Part 8: Commands for security operations*

ISO/IEC 7816-9: 1999, *Identification cards — Integrated circuit(s) cards with contacts — Part 9: Commands for card and file management*

ISO/IEC 7816-10: 1999, *Identification cards — Integrated circuit(s) cards with contacts — Part 10: Electrical interface for synchronous cards*

ISO/IEC 7816-11: 2003, *Identification cards — Integrated circuit(s) cards with contacts — Part 11: Personal verification through biometric methods*

ISO/IEC 7816-15: 2003, *Identification cards — Integrated circuit(s) cards with contacts — Part 15: Cryptographic information application*

ISO 8601:2000, *Data elements and interchange formats — Information interchange — Representation of dates and times*

ISO/IEC 8824-2:2004, *ITU-T Recommendation X.681 (1997), Information technology — Abstract Syntax Notation One (ASN.1): Information object specification*

ISO/IEC 8824-3:2002, *ITU-T Recommendation X.682 (1997), Information technology — ISO/IEC 8824-1:1998*

ISO/IEC 8824-4:2002, *ITU-T Recommendation X.683 (1997), Information technology — Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications*

ISO/IEC 8825-1:2003, *Information technology — ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)*

ISO/IEC 8825-2:2003, *Information technology — ASN.1 encoding rules: Specification of Packed Encoding Rules (PER)*

ISO/IEC 8825-3:2003, *Information technology — ASN.1 encoding rules: Specification of Encoding Control Notation*

ISO/IEC 8825-4:2003, *Information technology — ASN.1 encoding rules: XML Encoding Rules (XER) ISO/IEC 10373-6:2001 Test methods for proximity cards*

ISO/IEC 10373-6:2001/FDAM1, *Test methods for proximity cards (Amendment 1: Protocol test methods for proximity cards)*

ISO/IEC 10373-6:2001/AM2:2003, *Test methods for proximity cards (Amendment 2: Improved RF test methods)*

ISO/IEC 10373-6:2001/FDAM4, *Test methods for proximity cards (Amendment 4: Additional test methods for PCD RF interface and PICC alternating field exposure)*

ISO/IEC 10373-6:2001/FDAM5, *Test methods for proximity cards (Amendment 5: Bit rates of fc/64, fc/32 and fc/16)*

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ISO/IEC 10918, *Information technology — Digital compression and coding of continuous-tone still images*

ISO/IEC 14443-1:2000, *Identification cards — Contactless integrated circuit(s) cards — Proximity cards — Part 1: Physical Characteristics*

ISO/IEC 14443-2:2001, *Identification cards — Contactless integrated circuit(s) cards — Proximity cards — Part 2: Radio Frequency Power and Signal Interface*

ISO/IEC 14443-2:2001/AM1, *Identification cards - Contactless integrated circuit(s) cards - Proximity cards - Part 2: Radio frequency power and signal interface - Amendment 1: Bit rates of fc/64, fc/32 and fc/16*

ISO/IEC 14443-3, *Identification cards — Contactless integrated circuit(s) cards — Proximity cards — Part 3: Initialization and Anticollision*

ISO/IEC 14443-3:2001/AM1, *Identification cards - Contactless integrated circuit(s) cards - Proximity cards - Part 3: Initialization and anticollision - Amendment 1: Bit rates of fc/64, fc/32 and fc/16*

COR ISO/IEC 14443-3:2001/AM1, *Defect Report and Technical Corrigendum 1 for - International Standard ISO/IEC 14443-3:2001/AM1: Identification cards - Contactless integrated circuit(s) cards - Proximity cards - Part 3: initialization and anticollision - Amendment 1: Bit rates for fc/64, fc/32 and fc/16*

ISO/IEC 14443-3:2001/AM3, *Identification cards - Contactless integrated circuit(s) cards - Proximity cards - Part 3: Initialization and anticollision - Amendment 3: Handling of reserved fields and values*

ISO/IEC 14443-4, *Identification cards — Contactless integrated circuit(s) cards — Proximity cards — Part 4: Transmission protocol*

ISO/IEC 14443-4:2001/AM1, Identification cards - Contactless integrated circuit(s) cards - Proximity cards - Part 4: Transmission protocol - Amendment 1: Handling of reserved fields and values

ISO/IEC15444, *JPEG 2000*

ISO/IEC 19785-1, *Information Technology — Common Biometric Exchange Formats Framework — Part 1: Data element specification*

ISO/IEC 19794-4, *Information technology — Biometric data interchange formats — Part 4: Finger image data*

ISO/IEC 19794-5, *Information technology — Biometric data interchange formats — Part 5: Facial image data*

ISO/IEC 19794-6, *Information technology — Biometric data interchange formats — Part 6: Iris image data*

ISO/IEC 9796-2, *Information Technology — Security Techniques — Digital Signature Schemes giving message recovery — Part 2: Integer factorisation based mechanisms, 2002*

ISO/IEC 9797-1:1999, *Information technology —Security techniques — Message authentication Codes (MACs) — Part 1: Mechanisms using a block cipher*

Unicode 4.0.0, *The Unicode Consortium. The Unicode Standard, Version 4.0.0, defined by: The Unicode Standard, Version 4.0 (Boston, MA, Addison-Wesley, 2003. ISBN 0-321-18578-1) (Consistent with ISO/IEC 10646-1)*

ISO 11568-2:2005, *Banking — Key management (retail) — Part 2: Symmetric ciphers, their key management and life cycle (available in English only).*

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