International Standard 1001

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION•МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ•ORGANISATION INTERNATIONALE DE NORMALISATION

Information processing — File structure and labelling of magnetic tapes for information interchange

Second edition — 1986-02-15

UDC 681.3.04 : 681.327.64 **Ref. No. ISO 1001-1986 (E)**

Descriptors : data processing, information interchange, magnetic tapes, files, labelling, specifications.

Price based on 17 pages

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 1001 was prepared by Technical Committee ISO/TC 97, *Information processing systems.*

This second edition cancels and replaces the first edition (ISO 1001-1979), of which it constitutes a technical revision.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Printed in Switzerland

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Information processing — File structure and labelling of magnetic tapes for information interchange

1 Scope and field of application

This International Standard specifies the file structure and the labelling of magnetic tapes for the interchange of information between users of information processing systems.

This International Standard also specifies

— volume and file structure;

— basic characteristics of the blocks containing the records constituting the file;

— recorded labels for identifying files, file sections and volumes of magnetic tapes;

— four nested levels of interchange.

Furthermore, this International Standard specifies requirements for the processes which are provided within information processing systems, to enable information to be interchanged between different systems, utilizing recorded magnetic tape as the medium of interchange. For this purpose it specifies the functions to be provided within systems which are intended to originate or receive magnetic tape volumes which conform to this International Standard.

2 Conformance

2.1 Conformance of a magnetic tape volume set

A magnetic tape volume set conforms to this International Standard when all information recorded on it conforms to the specifications of this International Standard. A statement of conformance shall identify the lowest level of interchange to which the contents of the magnetic tapes conform.

A prerequisite to such conformance is conformance of each volume of the volume set to the same International Standard for information interchange on magnetic tapes.

2.2 Conformance of an information processing system

An information processing system conforms to this International Standard if it meets all the requirements specified in this International Standard either for an originating system, or for a receiving system, or for both types of system. A statement of conformance shall identify which of these sets of requirements can be met by the system.

3 References

ISO 646, *Information processing — ISO 7-bit coded character set for information interchange.*

ISO 962, *Information processing — Implementation of the 7-bit coded character set and its 7-bit and 8-bit extensions on 9-track,* 12,7 mm (0.5 in) *magnetic tape.*

ISO 1862, *Information processing — 9-track,* 12,7 mm (0.5 in) *wide magnetic tape for information interchange recorded at* 8 rpmm (200 rpi).

ISO 1863, *Information processing — 9-track,* 12,7 mm (0.5 in) *wide magnetic tape for information interchange recorded at* 32 rpmm (800 rpi).

ISO 1864, *Information processing — Unrecorded* 12,7 mm (0.5 in) *wide magnetic tape for information interchange —* 35 ftpmm (800 ftpi) *NRZ1,* 126 ftpmm (3 200 ftpi) *phase encoded and* 356 ftpmm (9 042 ftpi), *NRZ1.*

ISO 2022, *Information processing — ISO 7-bit and 8-bit coded character sets — Code extension techniques.*

ISO 3788, *Information processing — 9-track,* 12,7 mm (0.5 in) *wide magnetic tape for information interchange recorded at* 63 rpmm (1 600 rpi), *phase-encoded.*

ISO 4873, *Information processing — 8-bit coded character set for information interchange.*

ISO 5652, *Information processing — 9-track,* 12,7 mm (0.5 in) *wide magnetic tape for information interchange — Format and recording, using group coding at* 246 cpmm (6 250 rpi).

4 Definitions

For the purpose of this International Standard, the following definitions apply.

4.1 application program : A program that processes the contents of records belonging to a file, and may also process selected attribute data relating to the file or to the volume(s) on which it is recorded.

NOTE — An application program is a specific class of user as defined in this International Standard.