

INTERNATIONAL STANDARD

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Graphic technology — Prepress digital data exchange — Colour picture data on magnetic tape

*Technologie graphique — Échange de données digitales de
préimpression — Données d'images en couleur sur bande magnétique*



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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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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.

International Standard ISO 10755 was prepared by the American National Standards Institute (as ANSI IT8.1-1988) and was adopted, under a special "fast-track procedure", by Technical Committee ISO/TC 130, *Graphic technology*, in parallel with its approval by the ISO member bodies.

Annex A of this International Standard is for information only.

Introduction

The technical content of this International Standard is identical to that of American National Standard IT8.1-1988. The ANSI document was circulated for ISO approval as a fast-track document at the request of the 1989 plenary meeting of ISO/TC 130 and subsequent to its approval was restructured to be in accordance with part 3 of the *IEC/ISO Directives*. The IT8 document itself resulted from the joint efforts of an international industry group that included participants representing all of the major prepress vendors in the world. That group, initially identified as the DDES (Digital Data Exchange Standards) Committee, later became the founders of the ANSI IT8 (Image Technology) accredited standards committee which is responsible for electronic data exchange standards in graphic arts prepress.

Graphic technology — Prepress digital data exchange — Colour picture data on magnetic tape

1 Scope

This International Standard specifies a format for magnetic tape that will enable colour picture data transfer between colour electronic prepress systems manufactured by different vendors.

2 Conformance

A DDES implementation shall be in conformance with this International Standard if it meets the requirements of clauses 6 to 8 excepting those requirements specifically identified as non-UEF and EUEF. Non-UEF and EUEF, if used, shall be written as specified but are optionally read.

3 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO/IEC 646:1991, *Information technology — ISO 7-bit coded character set for information interchange*.

ISO 1001:1986, *Information processing — File structure and labelling of magnetic tapes for information interchange*.

ISO 1864:1985, *Information processing — Unrecorded 12,7 mm (0,5 in) wide magnetic tape for information interchange — 32 ftpmm (800 ftpi) NRZ1, 126 ftpmm (3 200 ftpi) phase encoded and 356 ftpmm (9 042 ftpi) NRZ1*.

ISO/IEC 3788:1990, *Information processing — 9-track, 12,7 mm (0,5 in) wide magnetic tape for information*

interchange using phase encoding at 126 ftpmm (3 200 ftpi), 63 cpmm (1 600 cpi).

ISO 5652:1984, *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 cpi)*.

4 Definitions

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

4.1 Digital Data Exchange Specification (DDES): A method of sharing digitally encoded information between cooperating systems.

4.2 User Exchange Format (UEF): The basic features that a system should implement to be in accordance with this International Standard.

4.3 Extended User Exchange Format (EUEF): Optional features that a system may implement in addition to the UEF features.

4.4 non-UEF: Vendor specific features not defined in this International Standard.

4.5 decimal point notation: The expression of a decimal number in a numeric field as a string of numeric characters (ISO/IEC 646 positions 3/0 to 3/9), with optional decimal point (ISO/IEC 646 position 2/14 - full stop).

5 Symbols and abbreviations

The following symbols and abbreviations are used in this International Standard:

BP: Byte position within a label. For ease of use with ISO 1001, byte positions start at 1.

L: Length of field in number of byte positions.