BS ISO 14289-1:2012



BSI Standards Publication

Document management applications — Electronic document file format enhancement for accessibility

Part 1: Use of ISO 32000-1 (PDF/UA-1)

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This British Standard is the UK implementation of ISO 14289-1:2012.

The UK participation in its preparation was entrusted to Technical Committee IDT/1/2, Document Management Applications - Applications issues.

A list of organizations represented on this committee can be obtained on request to its secretary.

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© The British Standards Institution 2012. Published by BSI Standards Limited 2012

ISBN 978 0 580 68038 0

ICS 35.240.30; 37.100.99

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2012.

Amendments issued since publication

Date Text affected

INTERNATIONAL

15012

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First edition 2012-07-15

Document management applications — Electronic document file format enhancement for accessibility —

Part 1: **Use of ISO 32000-1 (PDF/UA-1)**

Applications de la gestion de documents — Amélioration de format du fichier du document électronique pour l'accessibilité —

Partie 1: Utilisation de l'ISO 32000-1 (PDF/UA-1)



BS ISO 14289-1:2012 ISO 14289-1:2012(E)

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Published in Switzerland

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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.

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.

ISO 14289-1 was prepared by Technical Committee ISO/TC 171, *Document management applications*, Subcommittee SC 2, *Application issues*.

ISO 14289 consists of the following parts, under the general title *Document management applications* — *Electronic document file format enhancement for accessibility*:

— Part 1: Use of ISO 32000-1 (PDF/UA-1)

Introduction

PDF is a digital format for representing documents. PDF files may be created natively in PDF form, converted from other electronic formats, or digitized from paper. Businesses, governments, libraries, archives and other institutions and individuals around the world use PDF to represent considerable bodies of important information. These PDF files should be made accessible to users with disabilities.

The accessibility of a document is dependent on the inclusion of a variety of semantic information in a document such as (but not limited to) machine-recoverable text presented in a declared language, logical structure of content, and organization of that content in pages, sections and paragraphs. Semantic information can also contain a variety of descriptive metadata, such as alternative text for images. The primary purpose of ISO 14289 (known as PDF/UA) is to define how to represent electronic documents in the PDF format in a manner that allows the file to be accessible. This is accomplished by identifying the set of PDF components that may be used and restrictions on the form of their use. PDF/UA is intended as a companion standard, to be used in conjunction with ISO 32000, ISO 19005, ISO 15930 and other standards as may apply for the purpose of achieving accessibility or as mandated by this International Standard. In order for PDF/UA conforming files to be truly accessible, requirements on conforming readers and conforming assistive technology are also stipulated herein. By itself, PDF/UA does not necessarily ensure that the visual appearance of the content accurately reflects any original source material used to create the conforming file. For example, the process used to create a conforming file might substitute fonts, reflow text, downsample images, or use lossy compression. Organizations that need to ensure that a conforming file is an accurate representation of original source material may need to impose additional requirements on the processes that generate the conforming file beyond those imposed by this International Standard. In addition, it is important for those organizations to implement policies and practices regarding the inspection of conforming files for correct placement of accessibility information.

AIIM (an accredited standards developing organization) maintains an ongoing series of application notes for guiding developers and users of this International Standard. These application notes will be displayed, when available, at http://www.aiim.org/resources/standards/committees/PDFUA/App-Notes. AIIM will also retain copies of the specific non-ISO normative references in this International Standard that are publicly available electronic documents.

Document management applications — Electronic document file format enhancement for accessibility —

Part 1:

Use of ISO 32000-1 (PDF/UA-1)

1 Scope

This International Standard specifies how to use ISO 32000-1 (PDF/UA-1) to produce accessible electronic documents.

This International Standard is not applicable to:

- specific processes for converting paper or electronic documents to the PDF/UA format;
- specific technical design, user interface, implementation, or operational details of rendering;
- specific physical methods of storing these documents, such as media and storage conditions;
- required computer hardware and/or operating systems.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 32000-1:2008, Document management — Portable document format — Part 1: PDF 1.7

Web Content Accessibility Guidelines (WCAG) 2.0, W3C Recommendation, 11 December 2008. Available from the Internet http://www.w3.org/TR/WCAG20>.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

assistive technology

AT

software and/or hardware used by a person with a disability that provides alternative controls and/or renditions to facilitate their access to and usage of available functionality and information

3.2

alternate description

description of a structure element and its children

[SOURCE: ISO 32000-1:2008, 14.9.3]

NOTE ISO 32000-1 uses both "alternate text" and "alternate description" to refer to the same item.