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Graphic technology — Print product metadata for PDF files —

Part 1: Architecture and core requirements for metadata

*Technologie graphique — Métadonnées des produits d'impression
pour les fichiers PDF —*

Partie 1: Architecture et exigences principales pour les métadonnées



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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 130, *Graphic technology*.

A list of all parts in the ISO 21812 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

PDF files represent content pages and do not normally contain information identifying the usage of these content pages in print production. Document part metadata is a simple mechanism that allows for the exchange of information regarding a set of content pages to aid the receiver of the PDF files in determining the intended use of those content pages in the final print product. By understanding the intended use of content pages, the receiver of the PDF file can make more informed decisions regarding the production process for the final print product.

Several Industry groups have initiated work in the area of workflow control and print product semantics for use with document exchange using PDF. These include CIP4, Ghent Workgroup, the PDF/VT Competence Center, and TC 130 WG 2.

A set of application notes for this document may be found at <http://www.printtechnologies.org/standards/tools--best-practices/>. In addition, pointers may be found on this site to development tools provided for the assistance of developers and users of applications prepared based on this document.

A standard set of such document part metadata is needed to allow composition system and pdf creation vendors to effectively allow their users to communicate with printing and finishing systems that will receive and act on the provided PDF content data. This document defines a standard for document part metadata keys for PDF and their meanings for the purposes of driving workflows or aiding the creation of print production job tickets such as JDF or XJDF.

The intent is to accomplish this through standardizing the document part metadata that can be provided by a document creator. This document builds on the initial CIP4 ICS-Common Metadata for Document Production Workflow published in 2010. This document focuses on defining standardized document part metadata for PDF files using the DPart syntax as defined in ISO 16612-2 (PDF/VT) and ISO 32000-2 (PDF 2.0).

This document is the first part of a series of international standards that define a set of metadata keys and their meanings for use in PDF files to identify printed products and their component pages, to describe their appearance and characteristics and to guide their production.

The structure of the metadata is intended to encapsulate sufficient information in a PDF file to guide the production of printed products without the creator needing to know the details of the production processes that will be used.

It is expected that additional parts of this document will be published that standardize additional print application specific metadata using the architecture defined in this document.