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SLOVENSKI STANDARD
SIST ISO 19445:2023

01-april-2023

Grafična tehnologija - Meta podatki za grafični potek dela - XMP meta podatki za poskusno tiskanje slik in dokumentov

Graphic technology — Metadata for graphic arts workflow — XMP metadata for image and document proofing

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Technologie graphique — Métadonnées pour le flux de travail des arts graphiques — Métadonnées XMP pour la relecture de document et d'image

Ta slovenski standard je istoveten z: **ISO 19445:2022**

ICS:

35.240.30	Uporabniške rešitve IT v informatiki, dokumentiranju in založništvu	IT applications in information, documentation and publishing

SIST ISO 19445:2023 **en**

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INTERNATIONAL STANDARD

ISO
19445

Second edition
2022-06

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Reference number
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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*.

This second edition cancels and replaces the first edition (ISO 19445:2016), of which it constitutes a minor revision. The changes are as follows:

— the references in Clause 2 and the Bibliography have been updated.

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

This document describes a set of metadata that can be used to communicate the approval status for images or documents that are used for Graphic Arts print production workflow.

It is based on the soft-proofing ticket defined by the Ghent PDF Workgroup which uses XMP. This specification includes the specification of the Ghent PDF Workgroup soft-proofing ticket and extends it to include metadata required for the image preparation stage of the workflow.

The intent of this metadata is to track who has approved the image or document, how the proof was prepared, and what the viewing conditions were during the approval. To achieve this, the approver is identified along with the document output conditions, the software used for the approval and details of the device configuration.

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Graphic technology — Metadata for graphic arts workflow — XMP metadata for image and document proofing

1 Scope

This document specifies the set of metadata to be used to communicate the approval status, proof preparation and viewing parameters for images and documents that are used in the graphic arts print production workflow.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 15076-1, *Image technology colour management — Architecture, profile format and data structure — Part 1: Based on ICC.1:2010*

ISO 16684-1, *Graphic technology — Extensible metadata platform (XMP) — Part 1: Data model, serialization and core properties*

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

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1.1
ICC CMYK Characterization Data Registry
central registry for CMYK print characterisation data maintained by the ICC

3.1.2
ICC Profile
set of colorimetric transforms prepared according to ICC.1 or ISO 15076-1

3.1.3
PDF/X
file format for reliable exchange of print-ready data defined in ISO 15930

3.1.4
XMP
Extensible Metadata Platform
standard format for the creation, processing, and interchange of metadata as defined by ISO 16684-1

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3.2 Abbreviated terms

GWG Ghent PDF Workgroup (see www.gwg.org)

ICC International Color Consortium (see www.color.org)

URI Uniform Resource Identifier (defined in IETF RFC 3986)

4 Requirements

4.1 General

XMP shall be used to store information about the image and document preparation and approval and shall conform to the requirements of ISO 16684-1 and additional requirements as defined by this document.

This metadata shall be added, as described in ISO 16684-1, as an XMP packet to the image or document to which it refers.

4.2 Namespace

The namespace URI for XMP properties and fields defined in this document shall be http://gwg.org/spt/xmlns/.

The preferred namespace prefix is **spt**.

4.3 XMP packet structure

An XMP packet conforming to this document shall include either the ImageApprovals property or the ProofingApprovals property but not both. An XMP packet conforming to this document may contain other XMP properties.

4.4 ImageApprovals property

The ImageApprovals property shall be a non-empty ordered array of ImageApproval records as specified in Table 1.

The ImageApprovals record shall contain entries for all fields marked as *Required* and where appropriate should contain entries for those fields marked as *Optional*.

NOTE There is currently no defined purpose to the ImageApprovals order. An ordered array is used for compatibility with earlier GWG specifications.

The fields of the ImageApproval record are shown in Table 1.

Table 1 — ImageApproval record

Name	Type	Field content
PrintingConditionIdentifier	open Choice of Text	*Required*. The Reference Name for the printing condition that was used when the image was approved. This is an open choice - preferred options are those indicated in the ICC CMYK Characterization Data Registry (see www.color.org).
PrintingConditionDescription	Text	*Required*. A non-empty human readable string that describes the printing condition.