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Graphic technology — File format for quality control and metadata —

Part 2: Print Quality eXchange (PQX)

Technologie graphique — Format de fichier pour le contrôle qualité et les métadonnées —
Partie 2: PQX (Print Quality eXchange)

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Contents

Page

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 20616 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

ISO 20616 defines standard XML schemas designed to enable the digital exchange of print quality data and metadata between trading partners within the graphic arts supply chain. In the past, a number of different non-standard data formats have been used to communicate print quality metrics. It is a general observation that many of these existing non-standard data formats describe similar types of information. Existing standard data formats cover either too much or too little scope to address industry requirements. Hence, there is an industry need for a single, standard concise set of data formats for the communication of print quality.

Each part of ISO 20616 is intended to stand alone, but may be used in conjunction with each other, should that option be chosen. The goal of ISO 20616 is to maintain the degree of flexibility required by print buyers for all kinds of print generated for all purposes from any print device while minimizing the uncertainty of the data exchanged.

This document is intended to facilitate the one-way transmission of performance data for one or more printed samples, for one or more brands or products from a single press run from print service providers to relevant stakeholders and print buyers; thus, allowing them to assess and track relevant business, production, colour and quality data of printed materials of all forms. PQX is only intended to transmit raw quality data. The PQX file intentionally excludes tolerance and evaluative information, allowing the receiver to determine acceptability by applying their own scale and tolerance values. PQX incorporates colour using the same data containers that are defined in ISO 17972-4 (CxF3_Core.xsd). While PQX and CxF are different formats with different parsing requirements, developers can use the same strategies for reading and writing colour data in a PQX file that they use for reading and writing colour data in a CxF file. PQX is compatible with both spectral and non-spectral colour data.

Some portions of this document are available as electronic files at http://standards.iso.org/iso/20616/-2/ed-1/en

— ISO20616-2PQX.xsd

— ISO20616-2pqx_lines.pdf (a printable version of the PRX XML schema with reference line numbers)

— ISO20616-2SchemaDoc.pdf (Schema diagrams and documentation)

— PQX_MasterSampleA.pqx

— PQX_MasterSampleA.pdf (a printable version of Sample A with reference line numbers)

— PQX_MasterSampleB.pqx

— PQX_MasterSampleB.pdf (a printable version of Sample B with reference line numbers)

NOTE The spelling of fields in PQX were designed to match the spelling of fields taken from ISO 17972-1 and are not altered from that used in the normative reference. A specific example is the use of the word “color” instead of “colour”.

It should be noted that Idealliance, Inc. the original creator of the PQX file format, claims no intellectual property rights, neither patent nor copyright, to the materials used in this document.