BS ISO 17972-2:2016

BSI Standards Publication

Graphic technology — Colour data exchange format (CxF/X)

Part 2: Scanner target data (CxF/X-2)

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National foreword

This British Standard is the UK implementation of ISO 17972-2:2016.

The UK participation in its preparation was entrusted to Technical Committee PAI/43, Graphic technology.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Part 2: Scanner target data (CxF/X-2)

Technologie graphique — Échange des données de couleur en utilisant CxF —

Partie 2: Données cibles du scanner entrantes

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Foreword

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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 on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information.

The committee responsible for this document is ISO/TC 130, *Graphic technology*.

ISO 17972 consists of the following parts, under the general title *Graphic technology — Colour data exchange format (CxF/X)*:

— *Part 1: Relationship to CxF3 (CxF/X)*

— *Part 2: Scanner target data (CxF/X-2)*

— *Part 3: Output target data (CxF/X-3)*

— *Part 4: Spot colour characterisation data (CxF/X-4)*

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Introduction

ISO 17972 defines methods for the use of CxF3 to exchange measurement data and associated metadata within the graphic arts industry and for the exchange of these files between graphic arts users. It is a multi-part document where each part is intended to respond to different workflow requirements. The goal throughout the various parts of ISO 17972 has been to maintain the degree of flexibility required while minimizing the uncertainty of the data exchanged.

ISO 17972-1 defines the use of the publicly available Colour Exchange Format, version 3 (CxF3), for prepress data exchange and verification.

This part of ISO 17972 covers the use of CxF when exchanging data from ISO 12641. This part of ISO 17972 is not designed to replace ISO 12641, but to define an updated, verifiable, method of data exchange using CxF, acting as a supplement to ISO 12641:1997, 4.6 and 4.7. X-Rite Inc., the original creator of the CxF file format, claims no intellectual property rights to the materials used in this part of ISO 17972.

Scanner targets are one of the earliest defined data exchange use cases in the graphic arts and continue to be used for calibration and characterization of scanners and other devices. Traditionally, data has been provided in ACSII format using a keyword file. The direct mapping of existing data to the updated CxF/X-2 encoding was one of the primary concerns in writing this part of ISO 17972.

The following files are part of this part of ISO 17972, and are included as electronic inserts:

— CxF3_Core.xsd;

— CxF3_Schema_Diagram.pdf;

— Scannertarget CxF/X-2.cxf;

— Scannertarget.txt.

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