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GB/T 41468-2022

Graphic technology - Prepress data exchange - Tone adjustment curves exchange

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1.Structure and Drafting Rules of Standardization Documents"

drafted.

This document is equivalent to ISO 18620.2016 "Tonal Adjustment Curve for Prepress Data Exchange in Printing Technology".

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

The purpose of this document is to define a simple format to enable application of intertone adjustment curves (also known as transfer functions and platemaking curves) data

Exchange, these applications include but are not limited to color management, calibration and raster image processor systems.

In many cases, it is beneficial to provide the plates with calibration data in a standard format to ensure easy and accurate data exchange.

In printing technology, all raster image processor suppliers provide support for plate calibration and tone curve adjustment for digital printing presses, so

The data used is essentially the same, but each vendor uses a proprietary format. As a result, companies that provide tools to support print certification

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Many different file formats need to be supported. More and more printers realize the importance of calibration and want to provide a single

and often centralized solutions, it will become increasingly difficult to continue to use a siloed format.

There is no business reason for each vendor to adopt a different standard, but if there is a standard format, it has the potential to be adopted by the industry. This article

The software aims to define the minimum data set required by all current applications, and to provide an easily extensible format that can be agreed upon by both parties

When seen, additional metadata may be included.

Printing technology prepress data exchange

Tone adjustment curve

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1 Scope

This document specifies a simple extensible file format for use including but not limited to color management, calibration and raster image processors

(RIP) exchange of tone adjustment curves between applications of the system.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to

this document.

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

transfer curve transfercurve

A curve that defines the relationship between the input code value and the imaged or printed output value.

4.1 Text style

Text styles in this document use the following conventions.

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XML element names in bold, such as. TransferCurve.

XML attribute names are italicized, such as. SpotColorName.

4.2 Data Types

All datatype definitions used in this document are derived from the XML Framework Part 2.Datatypes (Second Edition).

5.1 XML namespaces

This document uses XML at its core to ensure accurate communication between metadata. It is likely that different systems will need to be added beyond the scope of this document

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