

ICS 37.100.01
CCS A 17



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 22113-2008

**Graphic technology -- Prepress digital data exchange -- Tag
image file format for image technology (TIFF/IT)**

印刷技术 印前数据交换 用于图像技术的标签图像文件格式(TIFF/IT)

(English Translation)

Issued on: July 2, 2008

Implemented on: December 1, 2008

Issued by: Standardization Administration of China

Table of Contents

Introduction

Introduction

1 Scope

Level 2 specification and logo

2.1 Overview

2.2 Image file type identification

2.3 TIFF/IT Specification

2.4 TIFF/IT-P1 Specifications

2.5 TIFF/IT-P2 specification

2.6 Identification 2 Specifications

3 Normative references

4 Terms, definitions and abbreviations

4.1 Terms and definitions

4.2 Abbreviations

5 5 Notes and field types

5.1 Note

5.2 Field Type

6 Image Data Type Description

6.1 Continuous-tone color images (CT) data

6.2 Color line images (LW) 6 data

6.3 High resolution continuous tone image (HC) data

6.4 Monochrome image and a binary image

6.5 Final page (FP) data

Requirements 7 TIFF/IT, TIFF/IT-P1 and TIFF/IT-P2 image data file

7.1 Tag image file format for image technology (TIFF/IT) structure

7.2 General parameters

7.3 Continuous-tone color image files

7.4 Color line image file

7.5 High resolution continuous tone image file

7.6 Monochrome continuous tone image file

7.7 Binary image file

7.8 Binary file line image

7.9 Screening data of the image file

7.10 Final page file

Appendix A (informative) specification level of the background

Appendix B (Informative Appendix) TIFF/file type identification and validation process

48 Relationship between the type of image on the color page Appendix C (informative)

Appendix D (Informative Appendix) TIFF/IT list of field names (in alphabetical order)

Foreword

This standard is identical with ISO 12639:2004 Tagged Image File Format "Graphic technology - Prepress digital data exchange for image technology (TIFF/IT) "(in English), and adopted its amended pieces (ISO 12639:2004/DAMD1).

The Standard Appendix E, Appendix F, Appendix G, Appendix H, Appendix J are normative appendices, Appendix A, Appendix B, Appendix C, Appendix D, attached Record I, Appendix K, Appendix L informative appendices.

This standard was proposed by the State Press and Publication Administration.

This standard by the National Standardization Technical Committee printing.

This standard was drafted. Tianjin University of Science and Technology, Nanjing Forestry University, School of Surveying and Mapping, Information Engineering University, China Institute of Science and Technology print the study.

Drafters of this standard. Caisheng Yan, Liu Zhen, Liu De, Wei Bin.

This standard is the first release.

GB/T 22113-2008/ISO 12639:2004

Introduction

The technical contents of this standard for communication between electronic or digital switching system for various types of color or monochrome raster image data file, which these files can be used in the prepress image processing, print design and related document creation and generation operations. The purpose of the standard is to provide a and media-independent exchange tools between the various media for data exchange, such as network, magnetic media and optical media.

Defined in this standard image file format for color continuous-tone images, line images color, high-resolution continuous tone images, even monochrome Continuous tone image, binary image and the binary image lines, plus network data and the composite final page image. The standard has three levels of specification.

TIFF/IT, TIFF/IT-P1 and TIFF/IT-P2.

TIFF/IT, also known as full TIFF/IT. TIFF/IT-P1 specification is a subset of TIFF/IT, providing a minimum of optional Range, allows only relatively simple operation, and read and write procedures and common TIFF6.0 compatible (for color continuous tone images, binary image and in terms of monochrome image files). For continuous-tone color images, monochrome image and binary image file format P1 respectively CMYK (points Color) compatible with the image, monochrome image and binary image TIFF6.0 file. For high resolution continuous tone images, line images and binary line Article image P1 file format, although not compatible with TIFF6.0, but by limiting the range of options, the implementation of the desktop system easier.

TIFF/IT-P2 also TIFF/IT a subset of the specification, including TIFF/IT-P1 all the options, and also supports spot colors, Larger color palette line images, image format screening and more compression methods. Compatible with TIFF/IT-P2 reading program should You can read TIFF/IT-P1 files.

By simplifying and pre-press, printing, document processing and computer graphics industries in many popular software applications supported by the system, Subset restriction function compatible, TIFF/IT-P1 and TIFF/IT-P2 format to make the standard more widely.

GB/T 22113-2008/ISO 12639:2004 Graphic technology - Prepress digital data exchange Tagged Image File Format (TIFF/IT) for image technology

1 Scope

This standard specifies the method for prepress electronic data exchange has nothing to do with the media, the method using a Tagged Image File Format. Standards are set Defined image file format capable of continuous-tone color images, color line images, high resolution continuous tone image, monochrome continuous tone images, binary image Like lines and binary image data screening and composite the final page image is encoded.

2.1 Overview

The standard has three levels of specification. TIFF/IT (also known as full TIFF/IT), TIFF/IT-P1 and TIFF/IT-P2. all Specification level support independent media method for pre-press, printing, and information processing in a variety of image exchange.

TIFF/IT-P1 specification provides a minimum range of options, allowing only relatively simple operation, and, and common TIFF6.0 Literacy program is compatible (for color continuous tone images, binary image and monochrome continuous tone image file is concerned). The specification is used without any options Occasions term.

TIFF/IT-P2 is the TIFF/IT is a subset of the specification. It contains TIFF/IT-P1 all the

options, and also supports special Color, larger LW palette, SD file format is used for screening and additional data compression method.

Only TIFF/IT fields defined in this standard is the need to write, to identify and explain, not categorized or referenced TIFF field You do not need support. Field is not supported treatment depends reading program. TIFF read program should follow the policy that ignores unsupported Hold field while trying to process the file (see Appendix A).

This standard describes the various types of image data specification TIFF/IT, TIFF/IT-P1 and/or TIFF/IT-P2 file format. meets the Various types of image data files required by this standard shall comply with the appropriate type of TIFF/IT, TIFF/IT-P1 and/or TIFF/IT-P2 specification. Accept and process reads these files should be compatible with the corresponding image type TIFF/IT, TIFF/IT-P1 or TIFF/IT-Writer P2 reading program, generates and outputs these documents should also be a corresponding type of TIFF/IT, TIFF/IT-P1 or TIFF/IT-P2 writer compatible. This standard TIFF6.0 conflict areas, priority should be given to this standard.

2.2 Image file type identification

TIFF/IT can represent various types of printing and printing image data structure. Each image file type identification code shown below (see Appendix B).

TIFF/IT-CT continuous-tone color image data TIFF/IT-LW color line image data TIFF/IT-HC high resolution continuous tone image data TIFF/IT-MP monochrome continuous tone image data TIFF/IT-BP binary image data TIFF/IT-BL binary image data lines TIFF/IT-SD image data screening TIFF/IT-FP final page data

2.3 TIFF/IT Specification

Implementation of this standard does not have to deal with all standard image file types, you can perform various image file types as described in Clause 7, respectively.

File, the program reads or writes may be identified as a program compatible with all types of image files or only several specific compatible image file types.

GB/T 22113-2008/ISO 12639:2004