

Multimedia systems and equipment - Multimedia e-publishing and e-book technologies - Texture map for auditory presentation of printed texts

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**Multimedia systems and equipment -
Multimedia e-publishing and e-book technologies -
Texture map for auditory presentation of printed texts
(IEC 62665:2012)**

Systèmes et appareils multimédia -
Technologies de l'édition électronique
multimédia et des livres électroniques -
Carte de texture pour la présentation
auditive de textes imprimés
(CEI 62665:2012)

Multimediasysteme und -geräte -
Multimedia E-Publishing und E-Book-
Technologien -
Textur-Abbildung für die auditive
Umsetzung von gedruckten Texten
(IEC 62665:2012)

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Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

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- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2013-03-13
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-06-13

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INTRODUCTION

Information interchange via printed documents between blind or visually impaired people has been carried out by using Braille. However, in order to be able to read Braille, particular training is required. Learning Braille is very difficult for aged as well as visually non-impaired people.

Printed documents with texts and text-encoded texture maps can be interchanged by ordinary circulation or publication mechanisms. They are readable as ordinary printed materials and comprehensible by blind or visually impaired people with the support of decoding and auditory presentation equipment.

Today, interchanging of printed documents has become wide-spread and international. The text-encoding scheme to generate a texture map should therefore be standardized at an international level.

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MULTIMEDIA SYSTEMS AND EQUIPMENT – MULTIMEDIA E-PUBLISHING AND E-BOOK TECHNOLOGIES – TEXTURE MAP FOR AUDITORY PRESENTATION OF PRINTED TEXTS

1 Scope

This International Standard specifies

- a text encoding scheme to generate a texture map;
- a physical shape and dimension of the texture map for printing;
- additional features for texture map printing;
- texture map decoding and an auditory presentation of decoded texts.

These specifications enable the interchange of documents and publications between visually impaired and non-impaired people.

2 Terms and definitions

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

2.1

texture map

two dimensional cell pattern which includes alignment lines and a data matrix which is generated from text data compression and error correction encoding

2.2

auditory presentation equipment

software engine to convert text to speech

3 Shape of texture map

3.1 Names of parts

The shape of a texture map and the name of each part are indicated in Figure 1.