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STANDARD

ISO/IEC 14496-28

First edition 2012-05-01

Information technology — Coding of audio-visual objects —

Part 28: Composite font representation

Technologies de l'information — Codage des objets audiovisuels — Partie 28: Représentation de la police de caractères composite



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ISO/IEC 14496-28:2012(E



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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 14496-28 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

ISO/IEC 14496 consists of the following parts, under the general title *Information technology* — *Coding of audio-visual objects*:

- Part 1: Systems
- Part 2: Visual
- Part 3: Audio
- Part 4: Conformance testing
- Part 5: Reference software
- Part 6: Delivery Multimedia Integration Framework (DMIF)
- Part 7: Optimized reference software for coding of audio-visual objects
- Part 8: Carriage of ISO/IEC 14496 contents over IP networks
- Part 9: Reference hardware description
- Part 10: Advanced Video Coding
- Part 11: Scene description and application engine
- Part 12: ISO base media file format
- Part 13: Intellectual Property Management and Protection (IPMP) extensions
- Part 14: MP4 file format
- Part 15: Advanced Video Coding (AVC) file format
- Part 16: Animation Framework eXtension (AFX)

- Part 17: Streaming text format
- Part 18: Font compression and streaming
- Part 19: Synthesized texture stream
- Part 20: Lightweight Application Scene Representation (LASeR) and Simple Aggregation Format (SAF)
- Part 21: MPEG-J Graphics Framework eXtensions (GFX)
- Part 22: Open Font Format
- Part 23: Symbolic Music Representation
- Part 24: Audio and systems interaction
- Part 25: 3D Graphics Compression Model
- Part 26: Audio conformance
- Part 27: 3D Graphics conformance
- Part 28: Composite font representation

Information technology — Coding of audio-visual objects —

Part 28:

Composite font representation

1 Scope

This part of ISO/IEC 14496 specifies the Composite Font Representation, an XML-based document format that allows combining individual component font resources into a single virtual font. Recent advances in developing the Unicode Standard and the addition of new characters that represent most of the world's languages and writing systems have resulted in a significant increase of the Unicode character repertoire, and this process is likely to continue in the future. Therefore, the ability to combine a number of individual fonts supporting different languages and Unicode ranges in a single virtual font description provides the opportunity for various users and creators of multimedia, graphics and textual content to support all of the world's languages and utilize the existing font rendering solutions that are implemented in current computing platforms and deployed in many existing devices.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BCP 47 — Tags for Identifying Languages, http://tools.ietf.org/html/bcp47>

Unicode Version 6.1, http://www.unicode.org/versions/Unicode6.1.0/