
**Information technology — Multimedia
application format (MPEG-A) —**

**Part 8:
Portable video application format**

*Technologies de l'information — Format pour application multimédia
(MPEG-A) —*

Partie 8: Format pour application video portable

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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 23000-8 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 23000 consists of the following parts, under the general title *Information technology — Multimedia application format (MPEG-A)*:

- *Part 1: Purpose for multimedia application formats*
- *Part 2: MPEG music player application format*
- *Part 3: MPEG photo player application format*
- *Part 4: Musical slide show application format*
- *Part 5: Media streaming application format*
- *Part 6: Professional archival application format*
- *Part 7: Open access application format*
- *Part 8: Portable video application format*
- *Part 9: Digital Multimedia Broadcasting application format*
- *Part 10: Video surveillance application format*
- *Part 11: Stereoscopic video application format*

Introduction

The way people consume video content has evolved over the years from simply watching what is shown in television broadcasts and disc media (e.g. DVD) to consuming both commercial and non-commercial content over the network through file downloads and streaming services. New types of consumer electronic devices that are capable of decoding such files and data bitstreams are readily available today. With better processing power, bigger storage, and longer battery life, many of the portable multimedia players that we see in the market are capable of supporting various video and audio codecs, as well as file formats.

The portable video application format is designed for a mid-resolution video playback application in such portable devices. The file format is structured to contain audio and video data, and a scene description. The scene description contains data for graphics, animation, text, and temporal layout, and the data is rendered or generated as the user interface (e.g. a menu screen). Therefore, a single file may contain multiple video contents such as bonus tracks (e.g. "making-of" movie clips) and audio tracks for different languages, and a user can control them by using the menu.

With such capabilities, the portable video application format allows users to consume or create video contents that provide a richer multimedia experience.

Information technology — Multimedia application format (MPEG-A) —

Part 8: Portable video application format

1 Scope

This part of ISO/IEC 23000 specifies a file format designed for mid-resolution “DVD-style” video applications. The file format provides the overall structure for storing video contents, images, metadata, and user interface in a single file.

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.

ISO/IEC 14496-12:2005, *Information technology — Coding of audio-visual objects — Part 12: ISO base media file format*

ISO/IEC 14496-14:2003, *Information technology — Coding of audio-visual objects — Part 14: MP4 file format*

ISO/IEC 14496-20:2006, *Information technology — Coding of audio-visual objects — Part 20: Lightweight Application Scene Representation (LAsEeR) and Simple Aggregation Format (SAF)*

ISO/IEC 15938-5:2003, *Information technology — Multimedia content description interface — Part 5: Multimedia description schemes*

3GPP TS 26.245, *Transparent end-to-end Packet switched Streaming Service (PSS); Timed text format*, V6.1.0, December, 2004