

# INTERNATIONAL STANDARD

# ISO/IEC 14496-8

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## Information technology — Coding of audio-visual objects —

### Part 8: Carriage of ISO/IEC 14496 contents over IP networks

*Technologies de l'information — Codage des objets audiovisuels —  
Partie 8: Transport du contenu MPEG-4 sur les réseaux IP*

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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 14496-8 was prepared by Joint Technical Committee ISO/TC 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)*

## Introduction

ISO/IEC 14496 is an International Standard designed for the representation and delivery of multimedia information over a variety of transport protocols. It includes interactive scene management, visual and audio representations as well as systems functionality like multiplexing, synchronization, and an object descriptor framework. This document provides a framework for the carriage of ISO/IEC 14496 contents over IP networks and guidelines for designing payload format specifications for the detailed mapping of ISO/IEC 14496 content into several IP-based protocols

# Information technology — Coding of audio-visual objects —

## Part 8: Carriage of ISO/IEC 14496 contents over IP networks

### 1 Scope

This part of ISO/IEC 14496 specifies transport level functionalities for the communication of interactive audio-visual scenes. More specifically:

1. Framework for the carriage of ISO/IEC 14496 contents over IP networks;
2. Guidelines to design RTP payload formats for ISO/IEC 14496 contents including fragmentation and concatenation rules;
3. Usage rules of SDP to transport ISO/IEC 14496-1 related information;
4. MIME type definitions for ISO/IEC 14496 contents; and
5. Analysis on RTP Security and Multicasting.

### 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.

IETF RFC 1889, *RTP A Transport Protocol for Real-Time Applications*

IETF RFC 1890, *RTP Profile for Audio and Video Conference with Minimal Control*

IETF RFC 2326, *Real Time Streaming Protocol (RTSP)*

IETF RFC 2327, *SDP: Session description protocol*

IETF RFC 3016, *RTP payload format for MPEG-4 audio/visual streams*

IETF RFC 3640, *Transport of MPEG-4 elementary streams*