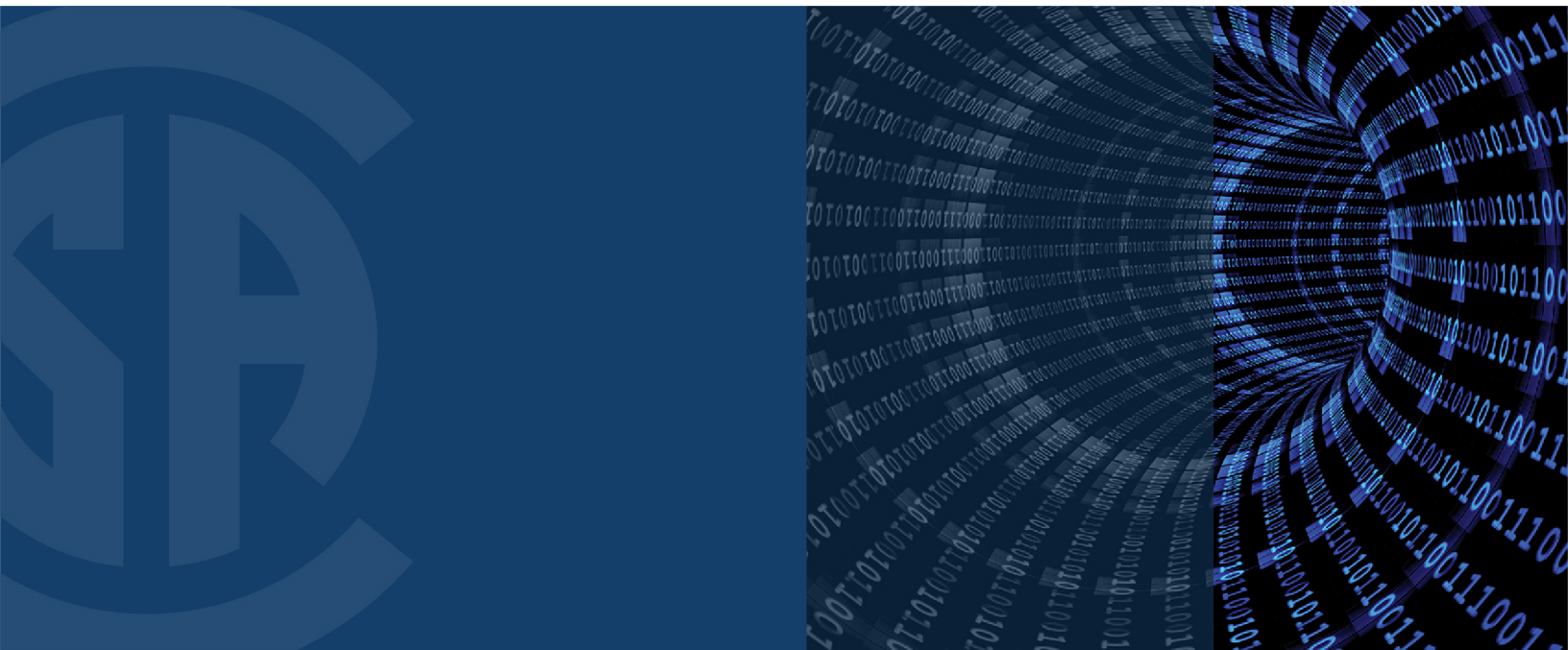




CSA ISO/IEC 14496-8:05
(ISO/IEC 14496-8:2004, IDT)
National Standard of Canada
(reaffirmed 2020)



CSA ISO/IEC 14496-8:05
Information technology — Coding of audio-visual
objects — Part 8: Carriage of ISO/IEC 14496 contents
over IP networks
(ISO/IEC 14496-8:2004, IDT)



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CSA ISO/IEC 14496-8:05

**Information technology — Coding of audio-visual
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CAN/CSA-ISO/IEC 14496-8:05

Information technology — Coding of audio-visual objects — Part 8: Carriage of ISO/IEC 14496 contents over IP networks

CSA Preface

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At the time of publication, ISO/IEC 14496-8:2004 is available from ISO and IEC in English only. CSA will publish the French version when it becomes available from ISO and IEC.

This International Standard was reviewed by the CSA TCIT under the jurisdiction of the Strategic Steering Committee on Information Technology and deemed acceptable for use in Canada. (A committee membership list is available on request from the CSA Project Manager.) From time to time, ISO/IEC may publish addenda, corrigenda, etc. The CSA TCIT will review these documents for approval and publication. For a listing, refer to the CSA Information Products catalogue or CSA *Info Update* or contact a CSA Sales representative. This Standard has been formally approved, without modification, by the Technical Committee and has been approved as a National Standard of Canada by the Standards Council of Canada.

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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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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.

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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/IEC14496 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*

3 Terms and definitions

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

3.1

MIME

Multipurpose Internet Mail Extensions, referring to an official Internet standard that identifies the format of the contents exchanged over different systems connected to the network