AS ISO/IEC 14496.8—2004

Australian Standard™

Information technology—Coding of audio-visual objects

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

STANDARDS AUSTRALIA

This Australian Standard was prepared by Committee IT-029, Coded Representation of Picture, Audio and Multimedia/Hypermedia Information. It was approved on behalf of the Council of Standards Australia on 27 October 2004.
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The following are represented on Committee IT-029:

Australian Broadcasting Authority
Australian Broadcasting Corporation
Australian Consumer Association
Australian Subscription Television
CSIRO Information and Communication Technology Centre
DSTC
Department of Defence (Australia)
Free TV Australia
Special Broadcasting Service
The University of New South Wales
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University of Wollongong
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PREFACE

This Standard was prepared by the Standards Australia Committee IT-029, Coded Representation of Picture, Audio and Multimedia/Hypermedia Information.

This Standard is identical with, and has been reproduced from, ISO/IEC 14496-8:2004, *Information technology—Coding of audio-visual objects*—Part 8: *Carriage of ISO/IEC 14496 contents over IP networks*.

The objective of this Standard is to provide the multimedia developer with 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.

As this Standard is reproduced from an international standard, the following applies:

(a) Its number appears on the cover and title page while the international standard number appears only on the cover.

(b) In the source text 'this International Standard' should read 'this Australian Standard'.

(c) A full point substitutes for a comma when referring to a decimal number.

(d) None of the normative references in the source document have been adopted as Australian or Australian/New Zealand Standards.

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

NOTES

AUSTRALIAN STANDARD

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