AS ISO/IEC 14496.13—2005
ISO/IEC 14496-13:2004

AS ISO/IEC 14496.13—2005

Australian Standard™

Information technology—Coding of audio-visual objects

Part 13: Intellectual Property Management and Protection (IPMP) extensions

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 30 March 2005.
This Standard was published on 27 April 2005.

The following are represented on Committee IT-029:

Australian Broadcasting Authority
Australian Broadcasting Corporation
Australian Consumers' Association
Australian Subscription Television and Radio Association
CSIRO Information and Communication Technologies Centre
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This Standard was issued in draft form for comment as DR 04568.

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First published as AS ISO/IEC 14496.13—2005.

Published by Standards Australia GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 6657 9

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 *Information technology—Coding of audio-visual objects*—Part 13*: Intellectual Property Management and Protection (IPMP) extensions*.

The objective of this Standard is to provide users of MPEG-4 systems with the IPMP (Intellectual Property Management and Protection) guidelines, including the syntax and semantics for IPMP control, signalling and data extension.

This Standard is Part 13 of AS 14496, *Information technology—Coding of audio-visual objects*, which is published in parts as follows:

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 12: ISO base media file format
Part 13: Intellectual Property Management and Protection (IPMP) extensions (this Standard)
Part 14: MP4 file format
Part 15: Advanced Video Coding (AVC) file format
Part 16: Animation Framework eXtension (AFX)
Part 18: Font compression and streaming
Part 19: Synthesized texture stream

The terms 'normative' and 'informative' are used to define the application of the annex to which they apply. A normative annex is an integral part of a standard, whereas an informative annex is only for information and guidance.

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 marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

Reference to International Standard		*Australian Standard/New Zealand Standard*	
ISO/IEC		AS/NZS	
10646	Information technology—Universal Multiple-Octet Coded Character Set (UCS)	4189	Information technology—Universal Multiple-Octet Coded Character Set (UCS)
10646-1	Part 1: Architecture and Basic Multilingual Plane	4189.1	Part 1: Architecture and Basic Multilingual Plane

CONTENTS

Page

INTRODUCTION

The International Organization for Standardization (ISO) and International Electrotechnical Commission (IEC) draw attention to the fact that it is claimed that compliance with this document may involve the use of a patent.

The ISO and IEC take no position concerning the evidence, validity and scope of this patent right.

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AUSTRALIAN STANDARD

Information technology — Coding of audio-visual objects —

Part 13:
Intellectual Property Management and Protection (IPMP) extensions

1 Scope

This International Standard specifies :

- The definition, as well as Extension tags, syntax and semantics for an `IPMP_Data_BaseClass` to support the following functionalities.
  - ✧ Mutual Authentication for IPMP tool to IPMP tool as well as IPMP tool to Terminal communication.
  - ✧ The requesting by IPMP tools of the connection/disconnection to requested IPMP tools.
  - ✧ The notification to IPMP tools of the connection/disconnection of IPMP tools.
  - ✧ Common IPMP processing.
  - ✧ IPMP tool to/from User interaction.
- Syntax and semantics for the carriage of IPMP tools in the bit stream.
- Syntax and semantics for IPMP information carriage to and from IPMP tools.
- Syntax and semantics for the requesting and transfer of content and IPMP Tools between Terminals as well as extension tags, syntax and semantics to the `IPMP_Data_BaseClass` ISO/IEC 14496-1 used therein.
- XML syntax and semantics for the description of the environment in which and MPEG-4 Terminal/Application is operating.
- A list of registration authorities required for the support of the amended specifications found herein.

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 10646-1:1993, *Information technology – Universal Multiple-Octet Coded Character Set (UCS) – Part 1: Architecture and Basic Multilingual Plane*

ISO/IEC 14496-1:2004, *Information technology — Coding of audio-visual objects — Part 1: Systems*