

Australian Standard™

**Information technology—Generic
coding of moving pictures and
associated audio information**

Part 11: IPMP on MPEG-2 systems

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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Part 11: IPMP on MPEG-2 systems

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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 13818-11:2004, *Information technology—Generic coding of moving pictures and associated audio information—Part 11: IPMP on MPEG-2 systems*.

The objective of this Standard is to provide users of MPEG-2 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 11 of AS 13818, *Information technology—Generic coding of moving pictures and associated audio information*, which is published in parts as follows:

Part 1: Systems

Part 2: Video

Part 3: Audio

Part 4: Conformance testing

Part 5: Software simulation

Part 6: Extensions for DSM-CC

Part 7: Advanced audio coding

Part 9: Extension for real time interface for systems decoders

Part 10: Conformance extensions for Digital Storage Media Command and Control (DSM-CC)

Part 11: IPMP on MPEG-2 systems (this Standard)

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<i>Reference to International Standard</i>		<i>Australian Standard/New Zealand Standard</i>	
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13818-1	Part 1: Systems	13818.1	Part 1: Systems
14496	Information technology—Coding of audio-visual objects	14496	Information technology—Coding of audio-visual objects
14496-1	Part 1: Systems	14496.1	Part 1: Systems

Only referenced documents that have been adopted as Australian or Australian/New Zealand Standards have been listed.

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NOTES

AUSTRALIAN STANDARD

Information technology — Generic coding of moving pictures and associated audio information —

Part 11: IPMP on MPEG-2 systems

1 Scope

This International Standard specifies IPMP (Intellectual Property Management and Protection) on the MPEG-2 system, including:

- a) syntax and semantics for IPMP control information which includes tool list, tool container and rights container;
- b) syntax and semantics for IPMP descriptors, which facilitates IPMP protection signalling;
- c) syntax and semantics of IPMP data extending from the common base class 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;
- d) syntax and semantics for IPMP information carriage to and from IPMP tools;
- e) syntax and semantics for the request and transfer of content and IPMP tools between terminals;
- f) XML syntax and semantics for the description of the environment in which the MPEG-2 Terminal/application is operating;
- g) a list of registration authorities required for the support of the specifications found herein.

This document is organized as follows.

Clause 1 provides an introduction to the document. Clause 4 explains the compatibility between the Conditional Access framework and MPEG-2 IPMP framework. Clause 5 provides an overview of the process supported by the IPMP framework, and identifies different normative elements in this process. Clause 6 provides specifications for components identified in Clause 5. Clause 7 provides specifications for the messaging architecture and all supported messages.

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