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

Part 4: Conformance testing

Technologies de l'information — Codage générique des images animées et des informations sonores associées —

Partie 4: Essais de conformité

Reference number
ISO/IEC 13818-4:2004(E)



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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.

ISO/IEC 13818-4 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology, Subcommittee SC 29, Coding of audio, picture, multimedia and hypermedia information*.

This second edition cancels and replaces the first edition, of which it constitutes a minor revision. It also incorporates the Amendments ISO 13818-4/Amd.1:1999, ISO 13818-4/Amd.2:2000 and ISO 13818-4/Amd.3:2000 and the Technical Corrigenda ISO 13818-4/Cor.2:1998, ISO 13818-4/Amd.1:1999/Cor.1:2003 and ISO 13818-4/Amd.3:2000/Cor.1:2003.

ISO/IEC 13818 consists of the following parts, under the general title *Information technology — Generic coding of moving pictures and associated audio information*:

- *Part 1: Systems*
- *Part 2: Video*
- *Part 3: Audio*
- *Part 4: Conformance testing*
- *Part 5: Software simulation* [Technical Report]
- *Part 6: Extensions for DSM-CC*
- *Part 7: Advanced Audio Coding (AAC)*
- *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*

Introduction

Parts 1, 2, 3 and 7 of ISO/IEC 13818 specify a multiplex structure and coded representations of audio-visual information. Parts 1, 2, 3 and 7 of ISO/IEC 13818 allow for large flexibility, achieving suitability of ISO/IEC 13818 for many different applications. The flexibility is obtained by including parameters in the bitstream that define the characteristics of coded bitstreams. Examples are the audio sampling frequency, picture size, picture rate and bitrate parameters.

This part of ISO/IEC 13818 specifies how tests can be designed to verify whether bitstreams and decoders meet the requirements as specified in parts 1, 2, 3 and 7 of ISO/IEC 13818. These tests can be used for various purposes such as:

- Manufacturers of encoders, and their customers, can use the tests to verify whether the encoder produces valid bitstreams.
- Manufacturers of decoders and their customers can use the tests to verify whether the decoder meets the requirements specified in parts 1, 2, 3 and 7 of ISO/IEC 13818 for the claimed decoder capabilities.

The International Organization for Standardization and the International Electrotechnical Commission (IEC) draw attention to the fact that it is claimed that compliance with this part of ISO/IEC 13818 may involve the use of patents.

ISO and IEC take no position concerning the evidence, validity and scope of these patent rights.

The holders of these patent rights have assured the ISO and IEC that they are willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statements of the holders of these patents right are registered with ISO and IEC. Information may be obtained from the companies listed in Annex E.

Attention is drawn to the possibility that some of the elements of this part of ISO/IEC 13818 may be the subject of patent rights other than those identified in Annex E. ISO and IEC shall not be held responsible for identifying any or all such patent rights.