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INTERNATIONAL STANDARD

ISO/IEC 23002-5

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Information technology — MPEG video technologies —

Part 5:

Reconfigurable media coding conformance and reference software

Technologies de l'information — Technologies vidéo MPEG —
Partie 5: Conformité du codage média reconfigurable et logiciels de référence







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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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 23002-5 was prepared by Joint Technical Committee ISO/IEC JTC 1, Information technology, Subcommittee SC 29, Coding of audio, picture, multimedia and hypermedia information.

ISO/IEC 23002 consists of the following parts, under the general title *Information technology — MPEG video technologies*:

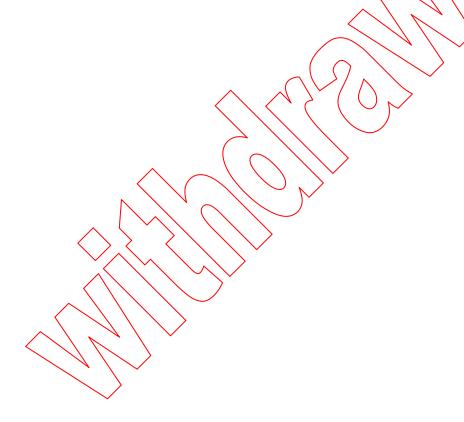
- Part 1: Accuracy requirements for implementation of integer-output 8×8 inverse discrete cosine transform
- Part 2: Fixed-point 8×8 inverse discrete cosine transform and discrete cosine transform
- Part 3: Representation of auxiliary video and supplemental information
- Part 4: Video tool library
- Part 5: Reconfigurable media coding conformance and reference software

Introduction

Two International Standards define the Reconfigurable Media Coding (RMC) framework: ISO/IEC 23001-4 and ISO/IEC 23002-4.

ISO/IEC 23001-4 defines the overall framework as well as the standard languages that are used to specify a codec configuration of an RMC decoder. The Abstract Decoder Model (ADM) is an executable description that uses the modular data flow computation model and constitutes the only necessary specification for defining a codec configuration.

ISO/IEC 23002-4 specifies, in the form of a unified library of video coding algorithms, the modular components called Functional Units (FUs) that in given configurations build the ADM of some profile and levels of the current existing decoding standards.



Information technology — MPEG video technologies —

Part 5:

Reconfigurable media coding conformance and reference software

1 Scope

This part of ISO/IEC 23002 describes:

- what is meant by conformance of what is specified in ISO/IEC 23002,4,
- the structure of the reference software related to what is specified in ISQ/JEC 23002-4.

Currently the following standards/profiles are included in ISO/IEC 23002-4 and in this part of ISO/IEC 23002 as reference software:

- ISO/IEC 14496-2 Simple Profile,
- ISO/IEC 14496-10 Constrained Baseline Profile,
- ISO/IEC 14496-10 Progressive High Profile

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 23001-4, Information technology — MPEG systems technologies — Part 4: Codec configuration representation

ISO/IEC 23002-4, Information technology — MPEG video technologies — Part 4: Video tool library

ISO/IEC 14496-2, Information technology — Coding of audio-visual objects — Part 2: Visual

ISO/IEC 14496-4, Information technology — Coding of audio-visual objects — Part 4: Conformance testing

ISO/IEC 14496-10, Information technology — Coding of audio-visual objects — Part 10: Advanced Video Coding