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Partie 10: Codage visuel avancé

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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 14496-10 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information Technology*, Subcommittee SC 29, *Coding of Audio, Picture, Multimedia and Hypermedia Information*.

This third edition cancels and replaces the second edition (ISO/IEC 14496-10:2004), which has been technically revised.

This part of ISO/IEC 14496 is technically aligned with ITU-T Rec. H.264 but is not published as identical text.

ISO/IEC 14496 consists of the following parts, under the general title *Information technology — Coding of audio-visual objects*:

- *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* [Technical Report]
- *Part 8: Carriage of ISO/IEC 14496 contents over IP networks*
- *Part 9: Reference hardware description* [Technical Report]
- *Part 10: Advanced Video Coding*
- *Part 11: Scene description and application engine*
- *Part 12: ISO base media file format*
- *Part 13: Intellectual Property Management and Protection (IPMP) extensions*
- *Part 14: MP4 file format*

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- *Part 15: Advanced Video Coding (AVC) file format*
- *Part 16: Animation Framework eXtension (AFX)*
- *Part 17: Streaming text format*
- *Part 18: Font compression and streaming*
- *Part 19: Synthesized texture stream*
- *Part 20: Lightweight Application Scene Representation (LAsER) and Simple Aggregation Format (SAF)*

The following parts are under preparation:

- *Part 21: MPEG-J GFX*

This corrected version of ISO/IEC 14496-10:2005(E) incorporates the following corrections:

- On the cover, the words “Second edition” have been replaced by the words “Third edition”.
- In 6.4.4, Figure 6-11 has been replaced.
- The last sentence of 7.1 has been replaced by the following: “When **syntax_element** appears, it specifies that a syntax element is parsed from the bitstream and the bitstream pointer is advanced to the next position beyond the syntax element in the bitstream parsing process.”
- In 8.4.1.3, Figure 8-1 has been renumbered as Figure 8-3.
- In 8.4.2.2.1, Figure 8-2 has been renumbered as Figure 8-4.
- In D.2.20, Equation D-15, “film_grain_bit_depth_luma_minus8” has been changed to “film_grain_bit_depth_chroma_minus8”
- In Table F-1, the heading “Notices filed and included in version 1” has been changed to “Notices filed and included in version 1. Version 1 corresponds to ISO/IEC 14496-10:2003.”