INTERNATIONAL STANDARD

ISO/IEC 23094-3

First edition
2022-09

Information technology — General video coding —

Part 3: Conformance and reference software for low complexity enhancement video coding

Technologies de l'information — Codage vidéo général —

Partie 3: Conformité et logiciel de référence pour le codage vidéo d'amélioration de faible complexité

Reference number
ISO/IEC 23094-3:2022(E)

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Published in Switzerland

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Foreword

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

A list of all parts in the ISO/IEC 23094 series can be found on the ISO and IEC websites.

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Information technology — General video coding —

Part 3: Conformance and reference software for low complexity enhancement video coding

1 Scope

This document specifies a set of tests and procedures designed to verify whether bitstreams and decoders meet normative requirements specified in ISO/IEC 23094-2.

An encoder can claim conformance to ISO/IEC 23094-2 if the bitstreams that it generates are conforming bitstreams. Characteristics of coded bitstreams and decoders are defined in ISO/IEC 23094-2. Decoder characteristics define the properties and capabilities of the applied decoding process. The capabilities of a decoder specify which bitstreams the decoder can decode and reconstruct. A bitstream can be decoded by a decoder if the characteristics of the bitstream are within the specified decoder capabilities.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 23094-2:2021, *Information technology – General video coding — Part 2: Low complexity enhancement video coding*

ISO/IEC 14882, *Programming languages — C++*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 23094-2 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
bitstream
sequence of bits in the form of a NAL unit stream or a raw bitstream, that forms the representation of coded pictures and associated data forming one or more coded video sequences

3.2
decoder
embodiment of a process that operates on a *bitstream* (3.1) and may conform to the decoding process requirements specified for conformance

Note 1 to entry: The decoder does not include the display process, which is outside the scope of this document.

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3.3
encoder
embodiment of a process that produces a *bitstream* (3.1)

Note 1 to entry: The process is not specified in this document (except in regard to identification of the reference software encoder).

3.4
reference software decoder
software which may decode a *bitstream* (3.1) encoded according to the syntax structure and which is accompanying this document

3.5
reference software encoder
encoding software which is accompanying this document

3.6
test base bitstream
bitstream (3.1) that is conformant to Rec. ITU-T H.264 | ISO/IEC 14496-10 or Rec. ITU-T H.265 | ISO/IEC 23008-2

3.7
test bitstream
bitstream (3.1) that is the combination of a *test base bitstream* (3.6) and a *test enhancement bitstream* (3.8)

3.8
test enhancement bitstream
bitstream (3.1) that is conformant to ISO/IEC 23094-2

4 Abbreviated terms

For the purposes of this document, the abbreviated terms given in ISO/IEC 23094-2 and the following apply.

API	Application programming interface
AVC	Advanced video coding
EVC	Essential video coding
HEVC	High efficiency video coding
LTM	LCEVC test model
VVC	Versatile video coding

5 Conventions

For the purposes of this document, relevant conventions are specified in of ISO/IEC 23094-2:2021, Clause 5.

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