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Part 1: Essential video coding

Technologies de l'information — Codage vidéo général —

Partie 1: Codage vidéo essentiel

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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*.

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Introduction

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

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Information technology — General video coding —

Part 1:
Essential video coding

1 Scope

This document specifies a video coding technology known as essential video coding (EVC), which contains syntax format, semantics and an associated decoding process. The decoding process is designed to guarantee that all EVC decoders conform to a specified combination of capabilities known as the profile, level and toolset. Any decoding process that produces identical cropped decoded output pictures to those produced by the described process is considered to be in conformance with the requirements of this document.

This document is designed to cover a wide range of application, including but not limited to digital storage media, television broadcasting and real-time communications.

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 11664-1, *Colorimetry — Part 1: CIE standard colorimetric observers*

3 Terms and definitions

For the purposes of this document, the following definitions apply.

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

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

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

3.1
access unit
set of *NAL units* (3.53) that are associated with each other according to a specified classification rule, are consecutive in *decoding order* (3.28), and contain exactly one *coded picture* (3.16)

3.2
adaptive loop filter
ALF
filtering process that is applied as part of the *decoding process* (3.29) and is controlled by *parameters* (3.58) conveyed in an *APS* (3.4)

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