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Information technology — JPEG XL image coding system —

Part 4: Reference software

Technologies de l'information — Système de codage d'images JPEG XL —

Partie 4: Logiciel de référence

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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 18181 series can be found on the ISO and IEC websites.

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Information technology — JPEG XL image coding system —

Part 4:
Reference software

1 Scope

This document provides reference implementations of ISO/IEC 18181-1 and ISO/IEC 18181-2. The software supports lossless and lossy compression of images and image sequences for a wide range of use cases such as (but not limited to) images with wide colour gamut and/or high dynamic range and responsive web images. This document includes source code and instructions for compilation and usage.

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 18181-1, *Information technology — JPEG XL image coding system — Part 1: Core coding system*

ISO/IEC 18181-2, *Information technology — JPEG XL image coding system — Part 2: File format*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 18181-1 and ISO/IEC 18181-2 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/

4 Reference software

4.1 General

The purpose of this document is to provide the following:

— Reference decoder software capable of decoding codestreams that conform to ISO/IEC 18181-1 and files that conform to ISO/IEC 18181-2.

— Reference encoder software capable of producing codestreams that conform to ISO/IEC 18181-1 and files that conform to ISO/IEC 18181-2.

The use of the reference software is not required for making an implementation of an encoder or decoder in conformance to ISO/IEC 18181-1 or ISO/IEC 18181-2. Requirements established in ISO/IEC 18181-1 and ISO/IEC 18181-2 take precedence over the behaviour of the reference software.

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