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# INTERNATIONAL STANDARD

# ISO/IEC 18181-3

First edition  
2022-10

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## Information technology — JPEG XL Image Coding System —

### Part 3: Conformance testing



Reference number  
ISO/IEC 18181-3:2022(E)

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Published in Switzerland

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives) or [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs)).

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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.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html) and [www.iec.ch/national-committees](http://www.iec.ch/national-committees).

## Introduction

The ISO/IEC 18181 series, also known as "JPEG XL", supports lossless and lossy compression of images and image sequences.

This document provides the framework, concepts and methodology for testing codestreams and implementations, and the criteria to be achieved to claim conformance to the ISO/IEC 18181 series. The objective of this standard is to promote interoperability between JPEG XL decoders, and to test these systems for conformance. Conformance testing is the testing of a candidate implementation for the existence of specific characteristics required by a standard.

The purpose of this document is to define a common test methodology, to provide a framework for specific test suites, and to define the procedures to be followed during conformance testing.

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# Information technology — JPEG XL Image Coding System — Part 3: Conformance testing

## 1 Scope

This document specifies the conformance testing of the ISO/IEC 18181 series, also known as JPEG XL. Other desirable aspects of implementation (including robustness and performance) are outside the scope of this document.

## 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*