## INTERNATIONAL STANDARD

ISO/IEC 23093-4

Second edition 2023-11

# Information technology — Internet of media things —

Part 4:

## Reference software and conformance

Technologie de l'information — Internet des objets media — Partie 4: Logiciels de référence et conformité





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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*.

This second edition cancels and replaces the first edition (ISO/IEC 23093-4:2020), which has been technically revised.

The main changes are as follows:

- modification of introduction;
- addition of new APIs;
- addition of binary reference software and its conformance streams.

A list of all parts in the ISO/IEC 23093 series can be found on the ISO website.

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 <a href="https://www.iso.org/members.html">www.iso.org/members.html</a> and <a href="https://www.iso.org/members.html">www.iso.org/members.html</a> and <a href="https://www.iso.org/members.html">www.iso.org/members.html</a> and

## Introduction

The ISO/IEC 23093 series provides an architecture and specifies APIs and compressed representation of data flowing between media things.

The APIs for the media things facilitate discovering other media things in the network, connecting, and efficiently exchanging data between media things. The APIs also support transaction tokens to access valuable functionalities, resources, and data from media things.

Information related to media things consists of characteristics and discovery data, setup information from a system designer, raw and processed sensed data, and actuation information. The ISO/IEC 23093 series specifies input and output data formats for media things such as media sensors, actuators, storage, and analysers. In addition, media analysers can process sensed data from media sensors to produce analysed data, and the media analysers can be cascaded to extract semantic information.

This document contains the conformance and reference software implementing ISO/IEC 23093-3, which includes the tools to describe data exchanged between media things and their APIs.

## Information technology — Internet of media things —

## Part 4:

## Reference software and conformance

## 1 Scope

This document specifies the conformance and reference software implementing ISO/IEC 23093-3. The information provided is applicable for determining the reference software modules available for ISO/IEC 23093-3, understanding the functionality of the available reference software modules, and utilising the available reference software modules.

Furthermore, this document provides means for conformance testing, i.e. bitstreams – XML and binary descriptions – that conform or do not conform to ISO/IEC 23093-3.

#### 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.

 ${\tt ISO/IEC~23093-1}, \textit{Information technology} - \textit{Internet of media things} - \textit{Part 1: Architecture}$ 

ISO/IEC 23093-2, Information technology — Internet of media things — Part 2: Discovery and communication API

ISO/IEC 23093-3, Information technology — Internet of media things — Part 3: Media data formats and APIs