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# INTERNATIONAL STANDARD

ISO/IEC 21122-2

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Information technology — JPEG XS low-latency lightweight image coding system —

Part 2:

Profiles and buffer models







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### **Foreword**

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A list of all parts in the ISO/IEC 21122 series can be found on the ISO website.

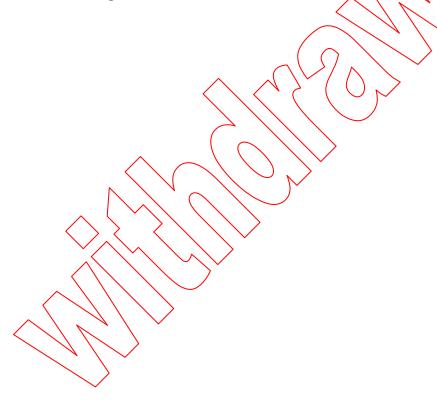
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### Introduction

ISO/IEC 21122-1 (JPEG XS) specifies a single syntax designed to serve a wide range of applications, bit rates, resolutions, qualities, and services. Its main target applications are video transport over video links and IP networks, real-time video storage, video memory buffer, omni-directional video capture system, head-mounted displays for virtual or augmented reality and sensor compression for the automotive industry. These applications have different requirements in terms of complexity, latency and compression efficiency. Even within a given application field, different requirements are usually identified depending on the targeted use case.

Considering the impracticality of implementing the full syntax of ISO/IEC 21122-1, and in order to meet the requirements of the different target applications while safeguarding as much as possible the interoperability enabled by the common syntax defined in ISO/IEC 21122-1 a limited number of subsets of this syntax are stipulated by means of "profiles", "levels", and "sublevels".

The coding tools specified in ISO/IEC 21122-1 allow encoder and decoder implementations to limit the end-to-end latency to a fraction of the frame size. To ensure this property, this document specifies a buffer model, consisting of a decoder model and a transmission channel model.





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## 1 Scope

This document defines a limited number of subsets of the syntax specified in ISO/IEC 21122-1 and a buffer model to ensure interoperability between implementations in the presence of a latency constraint.

#### 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 21122-1, JPEG XS low-latency lightweight image coding system — Part 1: Core coding system

