
**Information technologies — JPEG
systems —**

**Part 5:
JPEG universal metadata box format
(JUMBF)**

Technologies de l'information — Systèmes JPEG —

*Partie 5: Format universel de fichier de métadonnées pour JPEG
(JUMBF)*





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Foreword

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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 ISO documents 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).

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A list of all parts in the ISO/IEC 19566 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 www.iso.org/members.html.

Introduction

The JPEG universal metadata box format (JUMBF) provides a mechanism to embed and refer generic metadata in JPEG files. Specific content types can be assigned to identify the specific type of the embedded metadata. In addition to the content types defined in this document, other types can be defined by other standards or by third parties. ISO/IEC 19566-4 and ISO/IEC 19566-6 both use JUMBF to embed additional metadata in JPEG images. The JPEG XT file format (see ISO/IEC 18477-3) is used to embed JUMBF boxes in JPEG-1 images (see ITU-T.81 | ISO/IEC 10918-1).

Information technologies — JPEG systems —

Part 5:

JPEG universal metadata box format (JUMBF)

1 Scope

This document describes the JPEG universal metadata box format (JUMBF), which provides a universal format to embed any type of metadata in any box-based JPEG file format. This document defines the syntax of the JUMBF box and the mechanism to assign specific content types. In particular, this document specifies XML, JSON, codestream and UUID types. In addition, this document defines the syntax to reference or request the embedded metadata content within or outside the image.

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 10646, *Information technology — Universal Coded Character Set (UCS)*

ISO/IEC 11578, *Information technology — Open Systems Interconnection — Remote Procedure Call (RPC)*

ISO/IEC 21778, *Information technology — The JSON data interchange syntax*

FIPS PUB 180-4¹⁾, *Secure Hash Standard (SHS)*

W3C, Extensible Markup Language (XML 1.0), 5th edition, <<https://www.w3.org/TR/xml>>

1) <http://dx.doi.org/10.6028/NIST.FIPS.180-4>