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Part 7: JPEG linked media format (JLINK)

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Partie 7: Format de media de liaison JPEG (JLINK)

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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 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 or 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 19566 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 and www.iec.ch/national-committees.

Introduction

This document describes the JPEG Linked Media Format (JLINK) international standard, which enables the embodiment of multiple image types and media elements into a single media content. This document elaborates on the inherent properties and functionalities of the file format, such as file structure and navigation.

This document defines the image container for structuring multiple types of media into a single file, including definition of metadata specification for multiple types of media. It supports legacy technology in the domain, such as image coding technology as well as metadata standards that signal access policies and others.

In this document, the following verbal forms are used:

— “shall” indicates a requirement;

— “should” indicates a recommendation;

— “may” indicates a permission;

— “can” indicates a possibility or a capability.

Information marked as “NOTE” is intended to assist the understanding or use of the document. “Notes to entry” used in Clause 3 provide additional information that supplements the terminological data and can contain provisions relating to the use of a term.

Information technologies — JPEG systems —

Part 7:
JPEG linked media format (JLINK)

1 Scope

This document specifies an image file format capable of linking multiple media elements, such as image and text in any box-based JPEG file format.

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 19566-5, *Information technologies — JPEG systems — Part 5: JPEG universal metadata box format (JUMBF)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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/

3.1
bitstream
sequence of bits comprising an image file

3.2
codestream
collection of one or more bit streams and the main header, tile-part headers, and the EOC required for their decoding and expansion into image data

Note 1 to entry: This is the image data in a compressed form with all of the signalling needed to decode.

[SOURCE: ISO/IEC 15444-1:2019, 3.19]

3.3
link
relational description of a scene to another scene composed of linkage region, sprite, and visual effect for scene change

3.4
linkage region
specific region in a source scene to which a link is active