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Information technology — JPSearch —

Part 5: Data interchange format between image repositories

Technologies de l'information — JPSearch —

Partie 5: Format d'échange de données entre référentiels d'images

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 24800-5 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

ISO/IEC 24800 consists of the following parts, under the general title *Information technology — JPSearch*:

— *Part 1: System framework and components*

— *Part 2: Registration, identification and management of schema and ontology*

— *Part 3: Query format*

— *Part 4: File format for metadata embedded in image data (JPEG and JPEG 2000)*

— *Part 5: Data interchange format between image repositories*

— *Part 6: Reference software*

Introduction

ISO/IEC 24800 was developed to be an interoperable mechanism to handle metadata among compliant systems, including repository, search engine, and file entities. This part of ISO/IEC 24800 aims at a format for the exchange of image collections and respective metadata between JPSearch compliant repositories. It enables the synchronization of repositories in order to facilitate simple and fully interoperable exchanges across different devices and platforms.

Information technology — JPSearch —

Part 5:
Data interchange format between image repositories

1 Scope

This part of ISO/IEC 24800, JPSearch, provides a data interchange format for the exchange of image collections and respective metadata between JPSearch compliant repositories. The metadata can be at the level of the image or an image collection. By providing a solution for the carriage of image collections and associated metadata between compliant devices and platforms, the JPSearch data interchange format enables the synchronization of repositories in order to facilitate simple and fully interoperable exchanges across different devices and platforms.

The JPSearch data interchange format should enable the easy and reliable transfer of data between different hardware and software systems. In particular, it should support functions such as

— exchange of data between JPSearch repositories on different devices and platforms,

— consolidation of metadata generated on different systems,

— transferral of data to a newer and better system,

— consolidation of selected data to a centralized repository, and

— archive of data in a format which will survive current products.

2 Normative references

The following referenced documents are indispensable for the application 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 15938-1, *Information technology — Multimedia content description interface — Part 1: Systems*

ISO/IEC 15938-2, *Information technology — Multimedia content description interface — Part 2: Description definition language*

ISO/IEC 15938-3, *Information technology — Multimedia content description interface — Part 3: Visual*

ISO/IEC 15938-4, *Information technology — Multimedia content description interface — Part 4: Audio*

ISO/IEC 15938-5, *Information technology — Multimedia content description interface — Part 5: Multimedia description schemes*

ISO/IEC 23001-1, *Information technology — MPEG systems technologies; Binary MPEG format for XML*

W3C Recommendation 26 November 2008, Extensible Markup Language (XML) 1.0 (Fifth Edition)
http://www.w3.org/TR/2008/REC-xml-20081126/

ITU-T Rec. T.81 | ISO/IEC 10918-1, *Information technology — Digital compression and coding of continuous-tone still images: Requirements and guidelines*

ITU-T Rec. T.800 | ISO/IEC 15444-1, *Information technology — JPEG 2000 image coding system: Core coding system*