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**Information technology — JPSearch —**

**Part 3:  
Query format**

**AMENDMENT 1: JPSearch API**

*Technologies de l'information — JPSearch —*

*Partie 3: Format d'interrogation*

*AMENDEMENT 1: API JPSearch*



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The committee responsible for this document is ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.



# Information technology — JPSearch —

## Part 3: Query format

### AMENDMENT 1: JPSearch API

Add the following paragraph at the end of Clause 1.

In addition, this part of ISO/IEC 24800 specifies the JPSearch API, a Restful State (REST) Application Programming Interface, complementary to the JPSearch Query Format (JPQF). It is primarily intended to be used for web services. Compared to JPQF, it does not only specify the query syntax, but also the protocols used for sending and retrieving queries. It reduces the complexity of expressing image search queries by providing a simplified syntax to express common queries in the form of URIs. Furthermore, the API allows embedding JPQF queries to express more advanced queries or to use the API solely as a communication protocol for sending and retrieving queries between client and repository. In addition to text based search queries, the API provides functionality to support visual search applications, such as content-based image retrieval systems.

Change the title of Clause 5 “Disabled datatypes” to “JPQF Disabled datatypes”.

Change the title of Clause 6 “Disabled Query Types” to “JPQF Disabled Query Types”.

Move Clause 7 “Conformance” to the end of the document and update numbering.

Add the following clauses to the end of the document (before Conformance).

#### 7 Basic concepts of the JPSearch API

The API builds upon the HyperText Transfer Protocol (HTTP) for client-server communication. More specifically, in the context of a JPSearch-environment, the communication between a JPSearch-client and a JPSearch-server is specified. A JPSearch-client is any application that can formulate JPSearch-requests and handle JPSearch-responses. A JPSearch-server is an image repository that answers to JPSearch-requests and responds compliant with this part of ISO/IEC 24800.

Requests are largely expressed using the Uniform Resource Identifier (URI) syntax. This part of ISO/IEC 24800 follows the RFC 3986 syntax, as shown below:

```
URI = scheme "://" authority "/" path [ "?" query ] [ "#" fragment ]
```

More specifically, this part of ISO/IEC 24800 focuses solely on the “query” part of the former definition. The query part is a sequence of key value pairs separated with an “&” character. The keys are referred to as arguments or query options. For example, the following query has three query options arg1, arg2 and arg3:

```
?arg1=value1&arg2=value2&arg3=value3
```

Please note that the URIs should adopt proper URL encoding according to the RFC 3986 specification. Examples provided in this part of ISO/IEC 24800 are not encoded for the sake of readability.

Query options specified in this part of ISO/IEC 24800 are referred to as “system query options”. These query options can have the following types:

- signed or unsigned integer;
- real numbers;