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framework (MPEG-21) —**

**Part 22:
User description**

*Technologies de l'information — Cadre multimédia (MPEG-21) —
Partie 22: Description de l'utilisateur*



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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

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 Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

This third edition cancels and replaces the second edition (ISO/IEC 21000-22:2019), which has been technically revised.

The main changes are as follows:

- technologies related to vibro-haptic devices, that convey enriched information of consecutive vibrations to help elderly/fragilized persons, like load guidance or emergency warnings, for instance.

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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

The four data formats standardized in this document are represented in [Figure 1](#): User Description (UD), Context Description (CD), Service Description (SD), and Recommendation Description (RD), where UD/CD/SD/RD indicate the formats specified by MPEG-21 User Description.

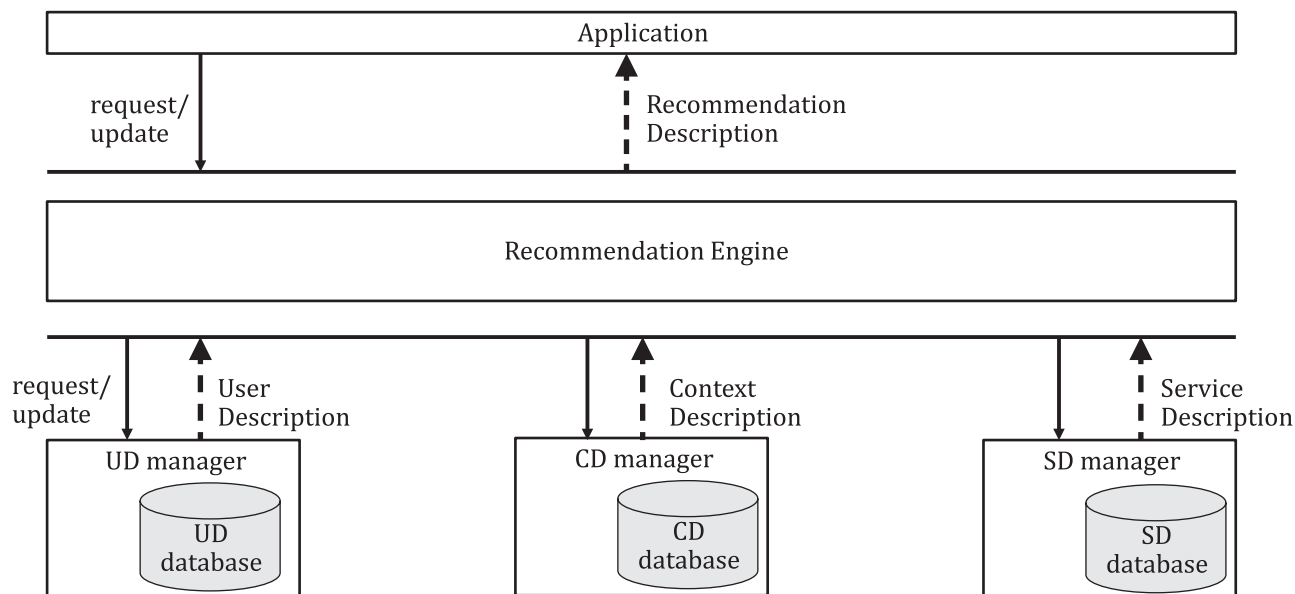


Figure 1 — Conceptual Model of MPEG-21 User Description

This document specifies User Description, Context Description, Service Description and Recommendation Description. Description Managers, Recommendation Engine and Application (in black in the figure) are outside of the scope of this document. The description managers of [figure 1](#) are in charge of:

- 1) Updating UD, CD and SD e.g. as a result of a User selection
- 2) Providing UD, CD and SD in response to requests coming from the Recommendation Engine.

Recommendation Engines process UD, CD and SD and provide Recommendations in the form of Recommendation Description (RD) typically to an Application.

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Information technology — Multimedia framework (MPEG-21) —

Part 22: User description

1 Scope

This document specifies four data formats: User Description (UD), Context Description (CD), Service Description (SD), and Recommendation Description (RD). This document also specifies technologies related to consecutive vibration.

2 Normative references

There are no normative references in this document.