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Information technology - Multimedia content description interface - Part 9: Profiles and levels

Developed by



Where IT all begins



INCITS/ISO/IEC 15938-9:2005[R2014]

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Part 9: Profiles and levels

*Technologies de l'information — Interface de description du contenu
multimédia —*

Partie 9: Profils et niveaux

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Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
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Contents

Page

Foreword.....	v
Introduction	vi
1 Scope	1
1.1 General.....	1
1.2 Organization of the document.....	1
2 Normative references	1
3 Definition of MPEG-7 Profiling	2
3.1 General.....	2
3.2 Definitions	2
3.2.1 Profile.....	2
3.2.2 Level.....	2
3.2.3 MPEG-7 Schema	2
3.2.4 Description profile	2
3.2.5 Description level	3
3.2.6 Profile schema	3
3.3 Conventions	3
3.3.1 Naming and identification of profiles	3
3.3.2 Specification of profiles and levels.....	3
4 Description Profiles	4
4.1 General.....	4
4.2 Simple Metadata Profile (SMP) and Level	4
4.2.1 Application Areas (INFORMATIVE).....	4
4.2.2 Functionality (INFORMATIVE)	4
4.2.3 Tools in the Profile (NORMATIVE)	6
4.2.4 Levels for SMP (NORMATIVE).....	9
4.3 User Description Profile (UDP) and Level	9
4.3.1 Application Areas (INFORMATIVE).....	9
4.3.2 Functionality (INFORMATIVE)	9
4.3.3 Tools in the Profile (NORMATIVE)	10
4.3.4 Levels for UDP (NORMATIVE)	13
4.4 Core Description Profile (CDP) and Level	13
4.4.1 Application Areas (INFORMATIVE).....	13
4.4.2 Functionality (INFORMATIVE)	13
4.4.3 Tools in the Profile (NORMATIVE)	13
4.4.4 Levels for CDP (NORMATIVE)	19
5 MPEG-7 Profile URI Values and Schema Namespace.....	19
6 MPEG-7 Profile Schemas	19

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. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

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 15938-9 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 15938 consists of the following parts, under the general title *Information technology — Multimedia content description interface*:

- *Part 1: Systems*
- *Part 2: Description definition language*
- *Part 3: Visual*
- *Part 4: Audio*
- *Part 5: Multimedia description schemes*
- *Part 6: Reference software*
- *Part 7: Conformance testing*
- *Part 8: Extraction and use of MPEG-7 descriptions*
- *Part 9: Profiles and levels*
- *Part 10: Schema definition*
- *Part 11: MPEG-7 profile schemas*

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Introduction

This International Standard, also known as "Multimedia Content Description Interface," provides a standardized set of technologies for describing multimedia content. It addresses a broad spectrum of multimedia applications and requirements by providing a metadata system for describing the features of multimedia content.

The following are specified in this International Standard:

Description schemes (DS) describe entities or relationships pertaining to multimedia content. Description schemes specify the structure and semantics of their components, which may be Description Schemes, descriptors, or datatypes.

Descriptors (D) describe features, attributes, or groups of attributes of multimedia content.

Datatypes are the basic reusable datatypes employed by description schemes and descriptors

Systems tools support delivery of descriptions, multiplexing of descriptions with multimedia content, synchronization, file format, and so forth.

This International Standard is subdivided into 10 parts:

Part 1 – Systems: specifies the tools for preparing descriptions for efficient transport and storage, compressing descriptions, and allowing synchronization between content and descriptions.

Part 2 – Description definition language: specifies the language for defining the International Standard set of description tools (DSs, Ds, and datatypes) and for defining new description tools.

Part 3 – Visual: specifies the description tools pertaining to visual content.

Part 4 – Audio: specifies the description tools pertaining to audio content.

Part 5 – Multimedia description schemes: specifies the generic description tools pertaining to multimedia including audio and visual content.

Part 6 – Reference software: provides a software implementation of the International Standard.

Part 7 – Conformance testing: specifies the guidelines and procedures for testing conformance of implementations of the International Standard.

Part 8 – Extraction and use of MPEG-7 descriptions: provides guidelines and examples of the extraction and use of descriptions.

Part 9 – Profiles and levels: provides guidelines and standard profiles.

Part 10 – Schema definition: specifies the schema using description definition language.

Part 11 – Profile Schemas: listing of profile schemas using description definition language.