

Australian Standard™

**Information technology—Multimedia
content description interface**

Part 10: Schema definition



This Australian Standard was prepared by Committee IT-029, Coded Representation of Picture, Audio and Multimedia/Hypermedia Information. It was approved on behalf of the Council of Standards Australia on 14 February 2006.
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PREFACE

This Standard was prepared by the Standards Australia Committee IT-029, Coded Representation of Picture, Audio and Multimedia/Hypermedia Information.

This Standard is identical with, and has been reproduced from ISO 15938-10:2005, *Information technology—Multimedia content description interface*, Part 10: *Schema definition*.

The objective of this Standard is provide the Australian multimedia and broadcasting industry a metadata system for describing multimedia content, by specifying the schema definition across all parts of ISO/IEC 15938.

Standards Australia is in the process of adopting most of ISO/IEC 15938 series Standards. Refer to the website for current list.

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative’ annex is only for information and guidance.

As this Standard is reproduced from an international standard, the following applies:

- (a) Its number appears on the cover and title page while the international standard number appears only on the cover.
- (b) In the source text ‘this International Standard’ and ‘this part of ISO/IEC 15938’ should read ‘this Australian Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
ISO/IEC		AS/NZS	
15938	Information technology— Multimedia content description interface	15938	Information technology— Multimedia content description interface
15938-1	Part 1: Systems	15938.1	Part 1: Systems
15938-2	Part 2: Description definition language	15938.2	Part 2: Description definition language
15938-3	Part 3: Visual	15938.3	Part 3: Visual
15938-4	Part 4: Audio	15938.4	Part 4: Audio
		AS ISO/IEC	
15938-5	Part 5: Multimedia description schemes	15938.5	Part 5: Multimedia description schemes

Only International Standard that have been adopted by Standards Australia have been listed.

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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 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: specifies profiles of description tools.

Part 10 – Schema definition: specifies the schema using Description Definition Language.

This document specifies the schema of the ISO/IEC 15938 standard by collecting the description tools specified in the ISO/IEC 15938, assigning a namespace designator, and specifying the resulting syntax description in a single schema using description definition language.

AUSTRALIAN STANDARD

Information technology — Multimedia content description interface —**Part 10:
Schema definition****1 Scope****1.1 Organization of the document**

This International Standard specifies a metadata system for describing multimedia content. This part of ISO/IEC 15938 specifies the schema definition across all parts of ISO/IEC 15938. This part of ISO/IEC 15938 collects the description tools specified in ISO/IEC 15938, assigns a namespace designator, and specifies the resulting syntax description in a single schema using description definition language from ISO/IEC 15938-2.

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 (*Parts 1, 2, 3, 4, 5*), *Information technology — Multimedia content description interface*

XML, *Extensible Markup Language (XML) 1.0*, October 2000

XML Schema, *W3C Recommendation*, 2 May 2001

XML Schema Part 0: *Primer*, W3C Recommendation, 2 May 2001

XML Schema Part 1: *Structures*, W3C Recommendation, 2 May 2001

XML Schema Part 2: *Datatypes*, W3C Recommendation, 2 May 2001

xPath, *XML Path Language*, W3C Recommendation, 16 November 1999

NOTE These documents are maintained by the W3C (<http://www.w3.org>). The relevant documents can be obtained as follows:

Extensible Markup Language (XML) 1.0 (Second Edition), 6 October 2000, <http://www.w3.org/TR/2000/REC-xml-20001006>;

XML Schema: W3C Recommendation, 2 May 2001, <http://www.w3.org/XML/Schema>;

XML Schema Part 0: Primer, W3C Recommendation, 2 May 2001, <http://www.w3.org/TR/xmlschema-0/> ;

XML Schema Part 1: Structures, W3C Recommendation, 2 May 2001, <http://www.w3.org/TR/xmlschema-1/>;