

Australian Standard™

**Information technology—Multimedia  
content description interface**

**Part 9: Profiles and levels**

**STANDARDS**  
Australia



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. This Standard was published on 10 March 2006.

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**Information technology—Multimedia  
content description interface**

**Part 9: Profiles and levels**

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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/IEC 15938-9:2005, *Information technology—Multimedia content description interface, Part 9: Profiles and levels*.

The objective of this Standard is to provide the Australian multimedia and broadcasting with 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.

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

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

- (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 part of ISO/IEC 15938’ should read ‘this Australian Standard’.
- (c) A full point substitutes for a comma when referring to a decimal separator.

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 —<br>Multimedia content description<br>interface | 15938                      | Information technology —<br>Multimedia content description<br>interface |
| 15938-2                                    | Part 2: Description definition<br>language                              | 15938.2                    | Part 2: Description definition<br>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<br>schemes                               | 15938.5                    | Part 5: Multimedia description<br>schemes                               |
| 15938-10                                   | Part 10: Schema definition  | 15938.10                   | Part 10: Schema definition  |

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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 scheme:** 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 – Profile 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.

AUSTRALIAN STANDARD

# Information technology — Multimedia content description interface —

## Part 9: Profiles and levels

### 1 Scope

#### 1.1 General

This part of 15938-9 collects standard profiles and levels for MPEG-7, specified across all ISO/IEC 15938 parts. While all parts are potential candidates for profiling, current profiles concentrate on the description definition language [ISO/IEC 15938-2], visual [ISO/IEC 15938-3], audio [ISO/IEC 15938-4] and multimedia description schemes [ISO/IEC 15938-5], which are based on the namespace versioning defined in schema definition [ISO/IEC 15938-10].

#### 1.2 Organization of the document

ISO/IEC 15938-9 provides six clauses. Clause 1 sets out the scope of this document while Clause 2 lists the normative and informative document references. Clause 3 provides definitions for terms and Clause 4 provides the informative part of description for application areas and functionality with the normative part of table for tools used and their constraints for each of the standard profiles and levels. Clause 5 provides a table of URI values for each standard profile, while Annex A contains a collection of profile schema for each of the standard profiles.

### 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 15938-2, *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 15938-10, *Information technology — Multimedia content description interface — Part 10: Schema definition*

**Note:** The 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>