

Australian Standard™

**Information technology—Multimedia
framework (MPEG-21)**

Part 8: Reference Software

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 10 April 2006.
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**Information technology—Multimedia
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Part 8: Reference Software

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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 21000-8:2006, *Information technology—Multimedia framework (MPEG-21)—Part 8: Reference Software*.

The objective of this Standard is to provide the Australian multimedia design industry with reference software for implementing and better utilizing the normative clauses of the other parts of ISO/IEC 21000.

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 part of ISO/IEC 21000’ 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 or Australian/New Zealand Standards, as follows:

| <i>Reference to International Standard</i> | | <i>Australian Standard</i> | |
|--|---|----------------------------|--|
| ISO/IEC | | AS ISO/IEC | |
| 15938 | Information technology—Multimedia content description interface | 15938 | Information technology—Multimedia content description interface |
| 15938-5 | Part 5: Multimedia description schemes | 15938.5 | Part 5: Multimedia description schemes |
| 21000 | Information technology—Multimedia framework (MPEG-21) (All parts) | 21000 | Information technology—Multimedia framework (MPEG-21) ¹ |

¹ Standards Australia is in the process of adopting most of ISO/IEC 21000 series Standards. Refer to the website for the current list.

CONTENTS

| | <i>Page</i> |
|------------------------------|---|
| 1 | Scope..... 1 |
| 2 | Normative references..... 1 |
| 3 | Terms, definitions, symbols and abbreviated terms 1 |
| 3.1 | Terms and definitions 1 |
| 3.2 | Symbols and abbreviated terms 2 |
| 4 | Overview and conventions 2 |
| 4.1 | Organization of the document 2 |
| 4.2 | Overview of ISO/IEC 21000 reference software..... 3 |
| 4.3 | Overview of ISO/IEC 21000 utility software 3 |
| 4.4 | Overview of integrated utility software across the individual ISO/IEC 21000 parts..... 4 |
| 5 | Reference software for the ISO/IEC 21000 parts..... 4 |
| 5.1 | Introduction..... 4 |
| 5.2 | ISO/IEC 21000-2 5 |
| 5.3 | ISO/IEC 21000-3 6 |
| 5.4 | ISO/IEC 21000-4 7 |
| 5.5 | ISO/IEC 21000-5 7 |
| 5.6 | ISO/IEC 21000-6 17 |
| 5.7 | ISO/IEC 21000-7 18 |
| Annex A (informative) | Utility software for the ISO/IEC 21000 parts 21 |
| Annex B (informative) | Integrated utility software across the individual ISO/IEC 21000 parts..... 53 |

INTRODUCTION

The multimedia industry is increasing at a rapid pace. For this industry, the term “content” is widely used across different segments and applied in many different ways. For this reason the term is deliberately avoided within the context of ISO/IEC 21000 International Standards, where it has been replaced by the defined terms “Digital Item”, “media resource” and “resource”. Of equal importance for the specifications of the multimedia framework is the notation of the User. A User of a system includes all members of the value chain (i.e. creator, rights holders, distributors and consumers of Digital Items).

This eighth part of ISO/IEC 21000 describes the reference software. The reference software of ISO/IEC 21000 serves three main purposes:

- validation of the written specification of the several parts of ISO/IEC 21000;
- clarification of the written specification of the several parts of ISO/IEC 21000; and
- conformance testing for checking interoperability for the various applications against the reference software which aims to be compliant with ISO/IEC 21000.

AUSTRALIAN STANDARD

Information technology — Multimedia framework (MPEG-21) —

Part 8: Reference Software

1 Scope

This part of ISO/IEC 21000 describes reference software implementing the normative clauses of the other parts of ISO/IEC 21000. The information provided is applicable for determining the reference software modules available for parts of ISO/IEC 21000, understanding the functionality of the available reference software modules, and utilizing the available reference software modules.

In addition to the reference software, available utility software that utilizes the reference software is also described. This utility software can assist in understanding how to utilize the reference software, as well as providing further insight into the applicable parts of ISO/IEC 21000 (e.g. informative clauses of the other parts of ISO/IEC 21000).

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/corrigenda) applies.

ISO/IEC 15938-5, *Information technology — Multimedia content description interface – Part 5: Multimedia description schemes*

ISO/IEC 21000 (all parts), *Information technology – Multimedia framework (MPEG-21)*

3 Terms, definitions, symbols and abbreviated terms

3.1 Terms and definitions

3.1.1

module

software component implementing **reference software** or **utility software**

3.1.2

reference software

one or more **modules** utilizing normative parts of ISO/IEC 21000 International Standards

3.1.3

utility software

one or more **modules** utilizing informative parts of ISO/IEC 21000 International Standards and/or the usage of **reference software** within real-world applications