

Australian Standard™

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

Part 16: Binary Format

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 19 April 2006.
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Australian Subscription Television
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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 21000-16:2005, *Information technology—Multimedia framework (MPEG-21)*, Part 16: *Binary Format*.

The objective of this Standard is to provide the Australian multimedia industry with ISO/IEC 21000 MPEG 21 binary format which enables the efficient interchange or storage of ISO/IEC 21000 descriptions.

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

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.
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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	
21000	Information technology – Multimedia framework (MPEG-21)	21000	Information technology – Multimedia framework (MPEG-21)
21000-2	Part 2: Digital Item Declaration	21000.2	Part 2: Digital Item Declaration
21000-3	Part 3: Digital Item Identification	21000.3	Part 3: Digital Item Identification
21000-5	Part 5: Rights Expression Language	21000.5	Part 5: Rights Expression Language
21000-6	Part 6: Rights data dictionary	21000.6	Part 6: Rights data dictionary
21000-7	Part 7: Digital item adaptation	21000.7	Part 7: Digital item adaptation
21000-9	Part 9: File Format	21000.9	Part 9: File Format

Only international references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

INTRODUCTION

Today, many elements exist to build an infrastructure for the delivery and consumption of multimedia content. There is, however, no “big picture” to describe how these elements, either in existence or under development, relate to each other. The aim for MPEG-21 is to describe how these various elements fit together. Where gaps exist, MPEG-21 will recommend which new standards are required. ISO/IEC JTC 1/SC 29/WG 11 (MPEG) will then develop new standards as appropriate while other relevant standards may be developed by other bodies. These specifications will be integrated into the multimedia framework through collaboration between MPEG and these bodies.

The result is an open framework for multimedia delivery and consumption, with both the content creator and content consumer as focal points. This open framework provides content creators and service providers with equal opportunities in the MPEG-21 enabled open market. This will also be to the benefit of the content consumer, providing them access to a large variety of content in an interoperable manner.

The vision for MPEG-21 is to define a multimedia framework *to enable transparent and augmented use of multimedia resources across a wide range of networks and devices* used by different communities.

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AUSTRALIAN STANDARD

Information technology — Multimedia framework (MPEG-21) —

Part 16: Binary Format

1 Scope

This part of ISO/IEC 21000 specifies the ISO/IEC 21000 binary format which is an alternative serialization format of descriptions as specified within other ISO/IEC 21000 parts, e.g. ISO/IEC 21000-2. This enables the efficient interchange or storage of ISO/IEC 21000 descriptions.

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 23001-1, *Information technology — MPEG systems technologies — Part 1: Binary MPEG format for XML*

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

SCC14N, *Schema Centric XML Canonicalization Version 1.0, Organization for the Advancement of Structured Information Standards (OASIS) Universal Description, Discovery, and Integration (UDDI) Technical Committee (TC) Committee Specification, 19 July 2002, available at <<http://www.uddi.org/pubs/SchemaCentricCanonicalization-20020710.htm>>*

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

xPath, *XML Path Language, W3C Recommendation, 16 November 1999, <http://www.w3.org/TR/1999/REC-xpath-19991116>*

Namespaces in XML, W3C Recommendation, 14 January 1999, <http://www.w3.org/TR/1999/REC-xml-names-19990114>

Canonical XML, W3C Recommendation, 15 March 2001, <http://www.w3.org/TR/xml-c14n>