

Australian Standard™

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

Part 2: Digital Item Declaration

STANDARDS
Australia



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

Part 2: Digital Item Declaration

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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 to supersede AS ISO/IEC 21000.2—2004.

This Standard is identical with, and has been reproduced from ISO/IEC 21000-2:2005, *Information technology—Multimedia framework (MPEG-21), Part 2: Digital Item Declaration*.

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

The objective of this Standard is to provide the Australian multimedia industry with an open framework for multimedia delivery and consumption, specifying the mechanism for determining the structure and makeup of Digital Items.

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.

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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.

This second part of MPEG-21 (ISO/IEC 21000-2) specifies the mechanism for declaring the structure and makeup of Digital Items.

The International Organization for Standardization (ISO) and International Electrotechnical Commission (IEC) draw attention to the fact that it is claimed that compliance with this document may involve the use of a patent.

The ISO and IEC take no position concerning the evidence, validity and scope of this patent right.

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified in Annex A. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

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AUSTRALIA STANDARD

Information technology—Multimedia framework (MPEG-21)

Part 2: Digital Item Declaration

1 Scope

This document describes the ISO/IEC 21000 Digital Item Declaration technology, which is Part 2 of the ISO/IEC 21000 series of International Standards. It specifies:

- the Digital Item Declaration Model (see 6),
- the Digital Item Declaration Representation in XML (see 7), and
- XML schemas comprising grammars for the Digital Item Declaration representation in XML (see 8).

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 21000 (all parts), *Information Technology — Multimedia Framework (MPEG-21)*

IETF RFC 2045, *Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies*, IETF Request for Comments: 2045, November 1996

IETF RFC 2616, *Hypertext Transfer Protocol – HTTP/1.1*, IETF Request for Comments: 2616, June 1999

IETF RFC 3548, *The Base16, Base32, and Base64 Data Encodings*, IETF Request for Comments: 3548, July 2003

IETF RFC 3986, *Uniform Resource Identifier (URI): Generic Syntax*, IETF Request For Comments: 3986, January 2005

W3C XINCLUDE, *XML Inclusions (XInclude) Version 1.0*, W3C Recommendation, 20 December 2004

W3C XML, *Extensible Markup Language 1.0 (Second Edition)*, W3C Recommendation, 6 October 2000

W3C XMLS14N, *Canonical XML Version 1.0*, W3C Recommendation, 15 March 2001

W3C XMLNAMES, *Namespaces in XML*, W3C Recommendation, 14 January 1999

W3C XMLSCHEMA, *XML Schema Part 1: Structures Second Edition* and *XML Schema Part 2: Datatypes Second Edition*, W3C Recommendations, 28 October 2004