

Australian Standard™

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

**Part 6: Rights data dictionary**

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 27 October 2004.  
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Australian Standard™

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

**Part 6: Rights data dictionary**

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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 21000-6:2004, *Information technology—Multimedia framework (MPEG-21)—Part 6: Rights data dictionary*.

The objective of this Standard is to provide the multimedia designer with a set of clear, consistent, structured, integrated and uniquely identified terms requirements and data needed for a Rights Data Dictionary that supports MPEG-21 Rights Expression Language (REL).

This Standard is Part 6 of AS ISO/IEC 21000, *Information technology—Multimedia framework (MPEG-21)*, which is published in parts as follows:

- Part 2: Digital Item Declaration
- Part 3: Digital Item Identification
- Part 5: Rights Expression Language
- Part 6: Rights data dictionary (this Standard)
- Part 7: Digital Item Adaptation

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<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
ISO		AS	
3166	Codes for the representation of names of countries and their subdivision	2632	Codes for the representation of names of countries and their subdivision

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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 sixth part of MPEG-21 (ISO/IEC 21000-6) specifies a Rights Data Dictionary for use within the MPEG-21 Framework. This Rights Data Dictionary forms the basis of all expressions of rights and permissions as defined by the MPEG-21 Rights Expression Language (specified in ISO/IEC 21000-5).

AUSTRALIAN STANDARD

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

## Part 6: Rights Data Dictionary

### 1 Scope

This part of ISO/IEC 21000 describes a Rights Data Dictionary which comprises a set of clear, consistent, structured, integrated and uniquely identified Terms (as defined in Clause 5.4) to support the MPEG-21 Rights Expression Language (REL), ISO/IEC 21000-5. Annex A specifies the methodology for and structure of the RDD Dictionary, and specifies how further Terms may be defined under the governance of a Registration Authority, requirements for which are described in Annex C.

Taken together, these specifications and the RDD Dictionary and Database together make up the RDD System. Use of the RDD System will facilitate the accurate exchange and processing of information between interested parties involved in the administration of rights in, and use of, Digital Items, and in particular it is intended to support ISO/IEC 21000-5 (REL). Clause 6 describes how this part of ISO/IEC 21000 relates to ISO/IEC 21000-5.

As well as providing definitions of Terms for use in ISO/IEC 21000-5, the RDD System is designed to support the mapping of Terms from different namespaces. Such mapping will enable the transformation of metadata from the terminology of one namespace (or Authority) into that of another namespace (or Authority). Mapping, to ensure minimum ambiguity or loss of semantic integrity, will be the responsibility of the Registration Authority, requirements for which are specified in Annex C. Provision of automated Term look-up is also a requirement.

The RDD Dictionary is a *prescriptive* Dictionary in the sense that it defines a single meaning for a Term represented by a particular RddAuthorized Term name, but it is also *inclusive* in that it can recognize the prescription of other Headwords and definitions by other Authorities and incorporates them through mappings. The RDD Dictionary also supports the circumstance that the same name may have different meanings under different Authorities. ISO/IEC 21000-6 describes such provisions so that additions, amendments and deletions to Terms and their attributes can be tracked.

ISO/IEC 21000-6 recognises legal definitions as and only as Terms from other Authorities that can be mapped into the RDD Dictionary. Therefore Terms that are directly authorized by the RDD Registration Authority neither define nor prescribe intellectual property rights or other legal entities.

#### 1.1 Organization of this Document

This document contains six Clauses and four Annexes.

Clause 1 contains a Scope statement and three sub-Clauses.

Clause 2 comprises a list of Normative References.

Clause 3 comprises a list of Terms and Definitions. The Terms and Definitions in this Clause are only those required to navigate the text of the Standard. The Terms of the RDD Dictionary are contained in Clause 5.

Clause 4 describes the documentation conventions used in this document.

Clause 5 contains the Standardized Terms of the RDD Dictionary, set out in the following sub-clauses:

Clause 5.1 – Introduction to the Terms in the RDD Dictionary and the ontology which it embodies. An ontology, in this context, is a structured catalog of entities in which meaning, once defined, can be passed on from one term to