3966.1-91

AS 3966.1—1991 ISO/IEC/TR 10000-1: 1990

Australian Standard®

Information technology—Framework and taxonomy of international standardized profiles

Part 1: Framework





This Australian Standard was prepared by Committee IT/1, Information Systems—Interconnection. It was approved on behalf of the Council of Standards Australia on 1 July 1991 and published on 9 August 1991.

The following interests are represented on Committee IT/1:

AUSSAT

Australian Association of Permanent Building Societies

Australian Bankers Association

Australian Bureau of Statistics

Australian Committee of Directors and Principals

Australian Computer Society

Australian Computer Users Association

Australian Information Industry Association

Australian Telecommunications Users Group

Australian Vice Chancellors Committee

Confederation of Australian Industry

CSIRO—Institute of Information and Communication Technologies

Department of Defence

Department of Industry, Technology and Commerce

Information Exchange Steering Committee

Life Insurance Federation of Australia

OTC

Telecom Australia

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up-to-date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

Australian Standard®

Information technology—Framework and taxonomy of international standardized profiles

Part 1: Framework

First published as AS 3966.1—1991.

PREFACE

This Standard was prepared by the Standards Australia Committee on Information Technology—Interconnection. It is identical with and has been reproduced from ISO/IEC/TR 10000-1:1990, Information technology—Framework and taxonomy of International Standardized Profiles—Part 1: Framework.

Under arrangements made between Standards Australia and the international Standards bodies, ISO and IEC, as well as certain other Standards organizations, users of this Australian Standard are advised of the following:

(a) Copyright is vested in Standards Australia.

Reference to International

(b) The number of this Standard is not reproduced on each page; its identity is shown only on the cover and title pages.

For the purpose of this Australian Standard, the ISO/IEC text should be modified as follows:

- (i) Terminology The words 'Australian Standard' should replace the words 'International Standard' wherever they appear.
- (ii) References The references to International Standards should be replaced by references to Australian Standards as follows:

Australian Standard

_Standard.or_c	other_Publication		
ISO		AS	
7498	Information processing systems— Open Systems Interconnection— Basic Reference Model	2777	Information processing systems— Open System Interconnection—Basic reference model
ISO/IEC			
9646	Information technology—OSI conformance testing methodology and framework		·
9646-1	Part 1: General Concepts	_	
9646-2	Part 2: Abstract test suite specification	_	
TR 10000	Information technology—Framework and taxonomy of International Standardized Profiles	3966	Information technology—Framework and taxonomy of International Standar-dized Profiles
TR 10000-2	Part 2: Taxonomy of profiles	3966.2	Part 2: Taxonomy of profiles
Directives Part 3	Drafting and presentation of International Standards	-	

© Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

CONTENTS

		Page
1	Scope	_
2	Normative References	
3	Definitions	
3.1	Terms defined in this part of ISO/IEC/ TR 10000	
3.1	Terms defined in ISO 9646-1	
4	Abbreviations	
5	Purpose of Profiles	_
6	Concept of a Profile	
6.1	The relationship to base standards	
6.2	The relationship to base standards	
6.2 6.3	Principles of Profile Content	
	·	
6.3.1 6.3.2	·	
		_
6.3.3		•
6.4	The meaning of conformance to a Profile	_
6.4.1		_
6.4.2		
6.5	Conformance requirements of OSI Profiles	
6.6	Static Conformance	
6.6.1		
6.6.2		_
6.6.3		
6.7	Dynamic conformance	
7	Framework of the Taxonomy of Profiles	
7.1	Nature and Purpose of the Taxonomy	
7.2	Main Elements of the Taxonomy of OSI Profiles	
7.3	Relationships between OSI Profiles	
7.3.1		
7.3.2		
8	Structure of Documentation for Profiles for OSI (ISPs)	_
8.1	Principles	
8.2	Multi-part ISPs	
8.3	Structure of ISPs	
8.4	The ISP Implementation Conformance Statement (ISPICS)	
8.4.1		
8.4.2		
8.4.3	ISPICS Requirements List (IPRL)	15
Annov A	Rules for the drafting and presentation of International Standardized Profiles	
	ntroduction	. 17
	General Arrangement (Rules 2.1)	•
	Preliminary Elements	. 17
A.3.1	Title Page (Rules 2.2.1)	. 17
A.3.2	Contents (Rules 2.2.2)	. 17
A.3.3	Foreword (Rules 2.2.3)	. 17
A.3.4	Introduction (Rules 2.2.4)	
	General Normative Elements	
		. 18
A.4.1	Title (Rules 2.3.1)	
A:4.2	Scope (Rules 2.3.2)	
A.4.3	Normative References (Rules 2.3.3)	
	Technical Normative Elements	
A.5.1	Definitions (Rules 2,4.1)	
A.5.2	Symbols and Abbreviations (Rules 2.4.2)	. 19

	·	Page
A.5.3	Requirements	19
A.5.4	Test Methods (Rules 2.4.5)	19
A.5.5	Normative Annexes (Rules 2.4.8)	19
A.6	Supplementary Elements	19
A.6.1	Informative Annexes (Rules 2.5.1)	19
A.6.2	Footnotes (Rules 2.5.2)	19
A.6.3	Notes integrated in the text (Rules 2.5.3)	19
A.6.4	Notes to tables and figures (Rules 2.5.4)	19
A.7	Editorial and Layout Information	19
n.,	Control and Edyod Information	15
Annex E	Examples of Multi-part ISP Structure	
B.1	Introduction	20
B.2	General example of multi-part ISPs	20
B.3	Examples for A-/B- and F-Profiles	21
B.3.1	Use with the A-/B-Profiles	21
B.3.2	Naming and Addressing	21
B.3.3	Office Document Format Profiles	21
B.4	Example of T-Profiles	.21
B.4.1	Specifications unique to individual Profiles	
B.4.2	Basic Component of Multi-part ISP for a Group	21
B.4.3	Selective References to ISP Parts	
B.4.4	ISP Parts common to more than one Group	22
Anney (C. Conformance Requirements of Profiles	23
C.1	Introduction	
C.2	General categorization of conformance requirements	
C.3	Selectable Options	
C.4	Conditional Requirements	
C.5	Guidance on notation in IPRLs	_
0.0		27
Annex [). Bibliography of Referenced (Non-normative) International Standards and CCITT Recommendations	S
D.1	Introduction	
D.2	List of referenced International Standards	
D.3	List of referenced International Standardized Profiles	25
D 4	List of referenced CCITT Recommendations	

Information technology—Framework and taxonomy of international standardized profiles

Part 1: Framework

1 Scope-

This part of ISO/IEC/TR 10000 defines the concept of Profiles, and the way in which they are documented in International Standardized Profiles. It gives guidance to organizations making proposals for Draft International Standardized Profiles, on the nature and content of the documents they are producing.

This part of ISO/IEC/TR 10000 outlines concepts of Profiles, the general Taxonomy (or Classification Scheme), and the format and content of ISPs. Annex A gives details of the format and content of ISPs as required by ISO/IEC JTC 1. Annex B gives examples of the ways in which Profile definitions are incorporated in ISPs for publication. Annex C gives guidance on conformance aspects of Profiles, and indicates the direction in which ISO/IEC/TR 10000 may be developed in the future. Annex D lists those ISO/IEC Standards and CCITT Recommendations which are quoted in examples.

ISO/IEC/TR 10000-2 provides a full classification for Profiles which may be or have been submitted for ratification as International Standardized Profiles.

ISO/IEC/TR 10000 is applicable to Profiles in the area of competence of ISO/IEC JTC 1, and within this, priority consideration has been given to Profiles in the OSI area, i.e. those which specify OSI base standards, and those concerned with interchange formats and data representation which are expected to be used in conjunction with them, though this subject is still for further study. In addition, as a lower priority, it is also applicable to Profiles specifying the use of other ISO/IEC JTC 1 base standards, for example:

- Open Distributed Processing;
- the representation of information or objects on storage media (as opposed to the current limitation to use with communications protocols);
- logical and physical storage structures.

However, it is recognized that the scope of the concept of Profiles may ultimately be wider than that of ISO/IEC JTC1. Examples of other areas to which the concept may eventually be extended by other Technical Committees are:

- interchange formats defined for particular application areas (e.g. trade data interchange formats in ISO/TC 154);
- protocols used in particular application areas (e.g. banking protocols in ISO/TC 68, industrial automation protocols in ISO/TC 184), which may also specify particular uses of the more generic Profiles included in this Taxonomy.

2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC/TR 10000. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO/IEC/TR 10000 are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 7498:1984, Information processing systems - Open Systems Interconnection - Basic Reference Model. (Corresponds to CCITT X.200)

ISO/IEC 9646-1:....,¹⁾ Information technology - OSI conformance testing methodology and framework - Part 1: General Concepts .
(Corresponds to CCITT X.290 Part 1)

ISO/IEC 9646-2:....,¹⁾ Information technology - OSI conformance testing methodology and framework - Part 2: Abstract test suite specification. (Corresponds to CCITT X.290 Part 2)

ISO/IEC/TR 10000-2:1990 Information technology -Framework and texonomy of International Standardized Profiles - Part 2: Taxonomy.

IEC/ISO Directives Part 3:1989, Drafting and presentation of International Standards

A number of other ISO Standards and CCITT Recommendations are quoted in examples which do not constitute provisions of this part of ISO/IEC/TR 10000. They are listed in annex D.