

INTERNATIONAL
STANDARD

ISO/IEC
10165-7

First edition
1996-09-01

**Information technology — Open Systems
Interconnection — Structure of
management information: General
relationship model**

*Technologies de l'information — Interconnexion de systèmes ouverts
(OSI) — Structure des informations de gestion: Modèle général relationnel*



Reference number
ISO/IEC 10165-7:1996(E)

Contents

1	Scope	1
2	Normative references	1
2.1	Identical Recommendations International Standards	1
2.2	Paired Recommendations International Standards equivalent in technical content	2
3	Definitions	2
3.1	Management framework definitions	2
3.2	Systems management overview definitions	2
3.3	CMIS definitions.....	3
3.4	Management information model definitions	3
3.5	Guidelines for the definition of managed objects definitions	3
3.6	Requirement and guidelines for implementation conformance statement proformas associated with OSI management definitions.....	3
3.7	State management function definitions	4
3.8	Additional definitions	4
4	Abbreviations	4
5	Conventions.....	5
6	Requirements.....	5
7	Model	5
7.1	Managed relationships	5
7.2	Relationship mappings.....	7
7.3	Re-usable specifications.....	8
7.4	Representation and management of managed relationships	8
8	Generic definitions	10
8.1	Relationship management operations and notification	11
8.2	Managed object class – genericRelationshipObject.....	11
8.3	Name binding – genericRelationshipObject-system	11
8.4	Attributes.....	11
8.5	Attribute group – relationships	12
8.6	Parameters.....	12
Annex A	– Relationship templates	13
A.1	Relationship class template	13
A.2	Relationship mapping template.....	17
Annex B	– Definition of management information.....	21
B.1	Allocation of object identifiers	21

© ISO/IEC 1996

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

ISO/IEC Copyright Office • Case postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

B.2	Definition of managed object classes.....	21
B.3	Definition of name bindings	21
B.4	Definition of attributes	21
B.5	Definition of parameters	22
B.6	Abstract syntax definitions.....	22
Annex C	Managed relationship conformance statement proforma for General Relationship Model	23
C.1	Introduction.....	23
C.2	Instructions for completing the MRCS proforma	23
C.3	Symbols, abbreviations and terms	23
C.4	Managed relationship support.....	23
Annex D	MIDS (attribute) proforma.....	25
D.1	Introduction.....	25
D.2	Attributes.....	25
D.3	Parameters.....	25
Annex E	Illustration of representation methods	27
Annex F	Examples of use of templates	29
F.1	Allocation of object identifiers	29
F.2	Symmetric relationship example.....	29
F.3	Dependency relationship example	30
F.4	General composition relationship example.....	36
F.5	Access control domain example	37
Annex G	Commentary.....	41
G.1	Introduction.....	41
G.2	Dependency between managed objects in a managed relationship.....	41
G.3	Consistency of views	41
G.4	Expression of relationship management operations and notifications	41
G.5	Generic management.....	42
G.6	Relationship awareness	42
G.7	Role specification.....	42
G.8	Re-use of specifications	42
G.9	AND SUBCLASSES	42
G.10	Relationship between relationships.....	42
G.11	Naming Scope of relationship objects	43
G.12	Allowable representation methods.....	43