

Implementation of
ISO/IEC 10164-1:1993

Information technology — Open Systems Interconnection — Systems Management: Object Management Function

UDC 681.3:691.39

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW



Document Sharing Hub

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Information Systems Technology Standards Policy Committee (IST/-) to Technical Committee IST/21, upon which the following bodies were represented:

- AEA Technology
- British Computer Society
- British Telecommunications plc
- CCTA (the Government Centre for Information Systems)
- Department of Trade and Industry [It Standards Unit (It6a)]
- Digital Equipment Co. Ltd.
- IBM United Kingdom Ltd.
- Information Systems Committee of the Universities Funding Council
- International Computers Limited
- Level 7 Ltd.
- Logica UK Ltd.
- Ministry of Defence
- National Computing Centre Ltd.
- National Health Services
- Oracle Corporation (UK) Ltd.
- PSC International Ltd.
- Rank Xerox Ltd.
- SEMA Group Systems Ltd.
- Salford Software Services (3-5)
- Swift Project Consortium

This British Standard, having been prepared under the direction of the Information Systems Technology Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 August 1993

© BSI 12-1999

The following BSI references relate to the work on this standard:
Committee reference IST/21
Draft for comment 90/66827 DC

ISBN 0 580 22470 8

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
Foreword	iv
Text of ISO/IEC 10164-1	1

National foreword

This British Standard reproduces verbatim ISO/IEC 10164-1:1993 and implements it as the UK national standard.

This British Standard is published under the direction of the Information Systems Technology Standards Policy Committee whose Technical Committee IST/21 has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international committee any enquiries on interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

NOTE International and European Standards, as well as overseas standards, are available from Customer Services, Publications, BSI, Linford Wood, Milton Keynes, MK14 6LE.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the ISO/IEC title page, pages ii to iv, pages 1 to 15 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

INTERNATIONAL
STANDARD

ISO/IEC
10164-1

First edition
1993-06-15

**Information technology — Open Systems
Interconnection — Systems Management:
Object Management Function**

*Technologies de l'information — Interconnexion de systèmes
ouverts (OSI) — Gestion-systèmes: Fonction de gestion d'objets*



Reference number
ISO/IEC 10164-1:1993(E)

Contents

	Page
Foreword	iv
Introduction	1
1 Scope	1
2 Normative references	1
3 Definitions	2
3.1 Basic reference model definitions	2
3.2 Management framework definitions	2
3.3 CMIS definitions	2
3.4 Systems management overview definitions	2
3.5 Management information model definitions	3
3.6 Service conventions definitions	3
3.7 OSI conformance testing definitions	3
4 Abbreviations	3
5 Conventions	3
6 Requirements	3
7 Model	3
7.1 Introduction	3
7.2 Pass-through services	4
8 Generic definitions	4
8.1 Event type	4
8.2 Event information	5
8.3 Event reply	6
8.4 Managed objects	6
8.5 Compliance	6
9 Service definition	6
9.1 Introduction	6
9.2 Object creation reporting service	6
9.3 Object deletion reporting service	7
9.4 Attribute value change reporting service	7
9.5 PT-ACTION service	7
9.6 PT-CREATE service	8
9.7 PT-DELETE service	8
9.8 PT-EVENT-REPORT service	8
9.9 PT-GET service	9
9.10 PT-SET service	9
10 Functional Units	9
11 Protocol	10
11.1 Elements of procedure	10
11.2 Abstract syntax	14
11.3 Negotiation of functional units	14
12 Relationships with other functions	14
13 Conformance	14
13.1 General conformance class requirements	15
13.2 Dependent conformance class requirements	15
Table 1 — Mapping of pass-through services	4
Table 2 — Object creation reporting parameters	7
Table 3 — Object deletion reporting parameters	7
Table 4 — Attribute value change reporting parameters	8
Table 5 — PT-ACTION parameters	8
Table 6 — PT-CREATE parameters	9

	Page
Table 7 — PT-DELETE parameters	9
Table 8 — PT-EVENT-REPORT parameters	9
Table 9 — PT-GET parameters	9
Table 10 — PT-SET parameters	10
Table 11 — Functional units	10
Table 12 — Parameter to attribute mapping	14
Table 13 — Notifications	14

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

International Standard ISO/IEC 10164-1 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in collaboration with the CCITT. The identical text is published as CCITT Recommendation X.730.

ISO/IEC 10164 consists of the following parts, under the general title *Information technology — Open Systems Interconnection — Systems Management*:

- *Part 1: Object Management Function;*
- *Part 2: State Management Function;*
- *Part 3: Attributes for representing relationships;*
- *Part 4: Alarm reporting function;*
- *Part 5: Event report management function;*
- *Part 6: Log control function;*
- *Part 7: Security alarm reporting function;*
- *Part 8: Security audit trail function;*
- *Part 9: Objects and attributes for access control;*
- *Part 10: Accounting meter function;*
- *Part 11: Workload monitoring function;*
- *Part 12: Test management function;*
- *Part 13: Summarization function;*
- *Part 14: Confidence and diagnostic test categories.*