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10165-2

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**Information technology — Open Systems
Interconnection — Structure of
management information: Definition of
management information**

*Technologies de l'information — Interconnexion de systèmes ouverts —
Structure des informations de gestion: Définition des informations de
gestion*



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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 10165-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in collaboration with CCITT. The identical text is published as CCITT Recommendation X.721.

ISO/IEC 10165 consists of the following parts under the general title *Information technology – Open Systems Interconnection – Structure of management information*:

- Part 1: *Management information model*
- Part 2: *Definition of management information*
- Part 4: *Guidelines for the definition of managed objects*
- Part 5: *Generic management information*
- Part 6: *Requirements and guidelines for implementation conformance statement proformas associated with management information*

Annex A forms an integral part of this part of ISO/IEC 10165. Annexes B, C, D, E, F and G are for information only.

Introduction

ISO/IEC 10165 is a multipart standard developed according to ISO 7498 and ISO/IEC 7498-4. ISO/IEC 10165 is related to the following International Standards:

- ISO/IEC 9595:1990, *Information technology – Open Systems Interconnection – Common management information service definition*;
- ISO/IEC 9596:1990, *Information technology – Open Systems Interconnection – Common management information protocol*;
- ISO/IEC 10040:1992, *Information technology – Open Systems Interconnection – Systems management overview*;
- ISO/IEC 10064:1992, *Information technology – Open Systems Interconnection – Systems Management*.

INTERNATIONAL STANDARD

CCITT RECOMMENDATION

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – STRUCTURE OF MANAGEMENT INFORMATION: DEFINITION OF MANAGEMENT INFORMATION

1 Scope

This Recommendation | International Standard

- defines the managed object classes, attribute types, name bindings, packages, specific attributes, action types, parameter types and notification types documented in accordance with CCITT Rec. X.722 | ISO/IEC 10165-4;
- specifies compliance requirements placed on other CCITT Recommendations | International Standards that make use of these definitions.

This Recommendation | International Standard is applicable to the development of OSI managed object class specifications and provides generic definitions that support OSI systems management functions. These definitions may also be used in other Recommendations | International Standards specifying object classes, attributes, notifications and action types.

2 Normative references

The following CCITT Recommendations | International Standards contain provisions which, through reference in this text, constitute provisions of this Recommendation | International Standard. At the time of publication, the editions indicated were valid. All Recommendations and Standards are subject to revision, and parties to agreements based on this Recommendation | International Standard are encouraged to investigate the possibility of applying the most recent editions of the Recommendations|Standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards. The CCITT Secretariat maintains a list of the currently valid CCITT Recommendations.

2.1 Identical CCITT Recommendations| International Standards

- CCITT Recommendation X.720 (1992) | ISO/IEC 10165-1 : 1992, *Information technology - Open Systems Interconnection - Structure of management information: Management information model.*
- CCITT Recommendation X.722 (1992) | ISO/IEC 10165-4 : 1992, *Information technology - Open Systems Interconnection - Structure of management information: Guidelines for definition of managed objects.*
- CCITT Recommendation X.730 (1992) | ISO/IEC 10164-1 : 1992, *Information technology - Open Systems Interconnection - Systems Management: Object management function.*
- CCITT Recommendation X.731 (1992) | ISO/IEC 10164-2 : 1992, *Information technology - Open System Interconnection - Systems Management: State management function.*
- CCITT Recommendation X.732 (1992) | ISO/IEC 10164-3 : 1992, *Information technology - Open Systems Interconnection - Systems Management: Attributes for representing relationships.*
- CCITT Recommendation X.733 (1992) | ISO/IEC 10164-4 : 1992, *Information technology - Open Systems Interconnection - Systems Management: Alarm reporting function.*

- CCITT Recommendation X.734¹⁾ | ISO/IEC 10164-5 : 1992, *Information technology - Open Systems Interconnection - Systems Management Event report management function.*
- CCITT Recommendation X.735¹⁾ | ISO/IEC 10164-6 : 1992, *Information technology - Open Systems Interconnection - Systems Management: Log control function.*
- CCITT Recommendation X.736 (1992) | ISO/IEC 10164-7 : 1992, *Information technology - Open Systems Interconnection - Systems Management: Security alarm reporting function.*

2.2 Paired CCITT Recommendations| International Standards equivalent in technical content

- CCITT Recommendation X.200 (1988), *Reference model of Open Systems Interconnection for CCITT applications.*
ISO 7498 : 1984, *Information processing systems - Open Systems Interconnection - Basic Reference Model.*
- CCITT Recommendation X.208 (1988), *Specification of abstract syntax notation one (ASN.1).*
ISO/IEC 8824: 1990, *Information technology - Open Systems Interconnection - Specification of Abstract Syntax Notation One (ASN.1).*
- CCITT Recommendation X.501 (1988), *The Directory - Models.*
ISO/IEC 9594-2 : 1990 *Information technology - Open Systems Interconnection - The Directory - Part 2: The Models.*
- CCITT Recommendation X.710 (1991), *Common management information service definition for CCITT applications.*
ISO/IEC 9595 : 1991, *Information technology - Open Systems Interconnection - Common management information service definition.*
- CCITT Recommendation X.711 (1991), *Common management information protocol specification for CCITT applications.*
ISO/IEC 9596-1: 1991, *Information technology - Open Systems Interconnection - Common management information protocol specification - Part 1: Specification.*

¹⁾ Presently at state of draft Recommendation.