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STANDARD

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**Information technology — Open Systems
Interconnection — Basic Reference
Model — Conventions for the definition of
OSI services**

*Technologies de l'information — Interconnexion de systèmes ouverts —
Modèle de Référence de Base — Conventions pour la définition des
services OSI*



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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 10731 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 21, *Open Systems interconnection, data management and open distributed processing*, in collaboration with ITU-T. The identical text is published as ITU-T Recommendation X.210.

Annexes A, B, C, D, E and F of this International Standard are for information only.

Introduction

The service conventions prescribed in this International Standard ensure that the services of OSI standards are defined in a uniform way, which is consistent with the OSI Reference Model and the application layer structure standard. The text was developed jointly with ITU-T. The main intent of this International Standard is to provide extended capabilities, which are useful in specifying services within the application layer and also to allow greater flexibility to accommodate new services among the layers in the future.

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INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

**INFORMATION TECHNOLOGY —
OPEN SYSTEMS INTERCONNECTION —
BASIC REFERENCE MODEL —
CONVENTIONS FOR THE DEFINITION OF OSI SERVICES**

1 Scope

This Recommendation | International Standard

- establishes definitions of terms and conventions for use by Recommendations | International Standards defining OSI-services within the scope of the Basic Reference Model of Open Systems Interconnection;
- specifies the application of these terms and conventions to the Recommendations | International Standards defining OSI-services within the Application Layer of the Basic Reference Model of Open Systems Interconnection;
- specifies the application of these terms and conventions to Recommendations | International Standards defining (N)-services for Layers 1 - 6 of the Basic Reference Model of Open Systems Interconnection.

2 Normative references

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

2.1 Identical Recommendations and International Standards

- ITU-T Recommendation X.207 (1993) | ISO/IEC 9545:1993, *Information Technology – Open Systems Interconnection – Application Layer structure.*

2.2 Paired Recommendations | International Standards equivalent in technical content

- CCITT Recommendation X.200 (1988), *Reference model of open systems for CCITT applications.*
- ISO/IEC 7498:1984, *Information technology – Open Systems Interconnection – Basic Reference Model.*

3 Definitions

For the purposes of this Recommendation | International Standard, the following definitions apply.

3.1 Terms defined in the OSI Basic Reference Model

This Recommendation | International Standard builds on the concepts developed in CCITT Rec. X.200 | ISO 7498 and makes use of the following terms defined in that Recommendation | International Standard:

- a) (N)-connection;
- b) (N)-connection-endpoint;
- c) (N)-entity;
- d) (N)-layer;