

AS 4022—1992  
ISO/IEC 10022:1990

Australian Standard<sup>®</sup>

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**Information technology—  
Open Systems Interconnection—  
Physical service definition**

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This Australian Standard was prepared by Committee IT/1, Information Systems—Interconnection. It was approved on behalf of the Council of Standards Australia on 2 March 1992 and published on 16 April 1992.

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First published as AS 4022—1992.

PUBLISHED BY STANDARDS AUSTRALIA  
(STANDARDS ASSOCIATION OF AUSTRALIA)  
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 7436 4

## PREFACE

This Standard was prepared by the Standards Australia Committee on Information Systems—Interconnection. It is identical with and has been reproduced from ISO/IEC 10022:1990, *Information technology—Open Systems Interconnection—Physical Service Definition*.

The Standard is one of a series of Open Systems Interconnection (OSI) Standards which are currently under development. Since OSI Standards are developmental, there may be some minor difficulties encountered in their implementation. For this reason, Standards Australia will be providing, through the OSI Help Desk, a service to coordinate and disseminate information concerning difficulties which are identified in using this Standard.

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<i>Reference to International Standard or other Publication</i>	<i>Australian Standard</i>
ISO 7498    Information processing systems— Open Systems Interconnection— Basic Reference Model	AS 2777    Information processing systems— Open Systems Interconnection— Basic reference model
ISO/TR 8509    Information processing systems— Open Systems Interconnection— Service conventions	3620    Information processing systems— Open Systems Interconnection— Service conventions
CCITT X.200    Reference Model of Open Systems Interconnection for CCITT Applica- tions	—
X.210    Service Conventions of Open Systems Interconnection for CCITT Applications	—

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# Information technology—Open Systems Interconnection—Physical service definition

## Section 1: General

### 1.1 Scope

This International Standard defines the OSI Physical Service in terms of

- a) the primitive actions and events of the Service;
- b) the parameters associated with each primitive action and event, and the form which they take;
- c) the interrelationship between, and the valid sequences of, these actions and events.

The principal objective of this International Standard is to specify the characteristics of a conceptual Physical Service and thus supplement the OSI Basic Reference Model in guiding the development of Physical Layer protocols.

This International Standard does not specify individual implementations or products nor does it constrain the implementation of entities and interfaces within an information processing system.

There is no conformance of equipment to this Physical Service Definition standard. Instead, conformance is achieved through implementation of conforming OSI Physical protocols that fulfil the Physical Service defined in this International Standard.

### 1.2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to

investigate the possibility of applying the most recent editions of the standards indicated 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*.

ISO/TR 8509:1987, *Information processing systems — Open Systems Interconnection — Service conventions*.

CCITT Recommendation X200:1989, *Reference Model of Open Systems Interconnection for CCITT Applications*.

CCITT Recommendation X210:1989, *Service Conventions of Open Systems Interconnection for CCITT Applications*.

### 1.3 Definitions

NOTE 2 Terms and definitions for Data communication and Open Systems Interconnection Architecture are given in ISO 2382-9 and ISO/IEC 2382-26.

#### 1.3.1 Basic Reference Model definitions

This International Standard is based on the concepts developed in the OSI Basic Reference Model, ISO 7498, and makes use of the following terms defined in it:

- a) Data circuit;
- b) Physical connection;
- c) Physical layer;
- d) Physical media;