

AS 3620—1989

ISO/TR 8509:1987

Australian Standard<sup>®</sup>

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**Information processing systems—**

**Open Systems Interconnection—  
Service conventions**

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This Australian Standard was prepared by Committee IS/1, Information Processing Systems. It was approved on behalf of the Council of Standards Australia on 7 February 1989 and published on 13 March 1989.

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## PREFACE

This Standard was prepared by Standards Australia's Committee on Information Processing Systems. It is identical with and has been reproduced from International Standard ISO TR 8509:1987, *Information processing systems— Open systems interconnection—Service conventions*.

This Standard was published by ISO as a Technical Report Type 2 (which means that the award is still under technical development) in recognition of the need for these service conventions by other Standards. Work is continuing to complete the project of producing a complete and satisfactory set of service conventions.

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 a limited interpretation service to coordinate and disseminate information concerning difficulties which are identified in using this Standard.

For the purpose of this Australian Standard, the text of the ISO Standard given herein should be modified as follows:

- (a) *Terminology*. The words 'Australian Standard' should replace the words 'International Standard' wherever they appear.
- (b) *References*. The references to International Standards should be replaced by references to Australian Standards as follows:

<i>Reference to International Standard</i>	<i>Australian Standard</i>
ISO	AS
7498 Information processing systems— Open Systems Interconnection— Basic Reference Model	2777 Information processing systems— Open Systems Interconnection— Basic Reference Model
8072 Information processing systems— Open Systems Interconnection— Transport service definition	2911 Information processing systems— Open Systems Interconnection— Transport service definition (ISO 8072)
8348 Information processing systems— Data communications—Network service definition	2894 Information processing systems— Data communications—Network service definition (ISO 8348 and ISO 8348:Add.1)

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# Information processing systems—Open Systems Interconnection—Service conventions

## 0 Introduction

This Technical Report has been published as interim guidance to users and definers of service standards. The objective is to provide a common definition of terms and time sequence diagrams for reference by service standards, particularly those for the Network, Transport and Session Layers.

Although the original intention was for ISO to publish an International Standard for service conventions, it has become accepted that considerably more work is required to produce a completely satisfactory and comprehensive treatment of the subject.

The advanced state of development of the Network, Transport and Session service definitions is such that a common reference to their use of service conventions is required. This Technical Report is designed to meet that need, but not the complete needs of all service standards derived from the Basic Reference Model. Even then it has not been possible to ensure full alignment between these three standards and this Technical Report. Almost all divergences are not technically significant, insofar as they generally involve slightly different ways of presenting the same type of information.

Rather than seek perfect alignment, and hence introduce delays in the publication of those standards, a more practical but less elegant solution has been adopted. This Technical Report defines the general conventions used, but also identifies where a particular service standard uses significantly different conventions.

## 1 Scope and field of application

This Technical Report establishes definitions of terms and conventions for reference by standards defining the connection-oriented or connectionless-mode (N)-services provided by the Reference Model for Open Systems Interconnection (ISO 7498). In particular, it is concerned with conventions relating to a point-to-point connection, or instance of a point-to-point communication within a layer of the Reference Model.

NOTE — The scope of this Technical Report has been restricted to meet a specific urgent need for the Network, Transport and Session Layers. Where appropriate it can be applied to other layers.

Conventions for the other modes of (N)-service, and wider issues of the underlying semantic model for (N)-services are the subject of further study.

## 2 References

ISO 7498, *Information processing systems—Open Systems Interconnection—Basic Reference Model*.

ISO 8072, *Information processing systems—Open Systems Interconnection—Transport service definition*.