INTERNATIONAL STANDARD



First edition 1989-11-15

Information processing systems – Open Systems Interconnection – Basic Reference Model –

Part 4 : Management framework

Systèmes de traitement de l'information — Interconnexion de systèmes ouverts — Modèle de référence de base —

Partie 4 : Cadre général de gestion



DOCKE.

RM

Δ

Reference number ISO/IEC 7498-4 : 1989 (E)

Find authenticated court documents without watermarks at docketalarm.com.

Contents

Page

Fore	word	iii
Intro	duction	iv
1	Scope	1
2	Normative references	1
3	Definitions and abbreviations	1
4 4.1 4.2 4.3 4.4 4.5	Concepts in OSI Management Users' requirements of OSI Management The OSI Management environment Managed objects, their attributes and operations Management relationships between open systems OSI Management functional areas	2 2 2 2 2 2 2 2 2 2
5 5.1 5.2 5.3 5.4 5.5 5.6	Model for OSI Management Overview OSI Management structure Supporting functionality required by OSI Management Management Information Base Flow of management control Flow of management information	3 3 3 4 4 4 4
6 6.1 6.2 6.3 6.4	OSI Management specifics OSI Management standardization OSI Management operation The form of management information exchanges OSI Management conformance	5 5 5 6 6
Ann	ex A – Comments relating to the OSI Management Framework	7
A.1 A.2 A.3 A.4 A.5	Introduction Abbreviations Brief Overview of OSI Management Scope and Concepts Systems Management Standards Management Information and the Management Information Base	7 7 7 8 9

© ISO/IEC 1989

DOCKET

LARM

Δ

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

ISO/IEC Copyright Office \bullet Case postale 56 \bullet CH-1211 Genève \bullet Switzerland Printed in Switzerland

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) together form a system for worldwide standardization as a whole. 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 approval before their acceptance as International Standards. They are approved in accordance with procedures requiring at least 75 % approval by the national bodies voting.

International Standard ISO/IEC 7498-4 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology.*

Introduction

The Basic Reference Model of Open Systems Interconnection (OSI), ISO/IEC 7498, provides a description of the activities necessary for systems to interwork using communication media. This part of ISO/IEC 7498 forms Part 4 of ISO/IEC 7498 and provides a description of the framework and structure of OSI Management in a way that supplements and clarifies the description of management contained in ISO/IEC 7498.

The purpose of this part of ISO/IEC 7498 is to provide a common basis for the coordinated development of management standards.

It is also the purpose of this part of ISO/IEC 7498 to identify areas for developing or improving standards, and to provide a common reference for maintaining consistency of all related standards. It is not the intent of this part of ISO/IEC 7498 either to serve as an implementation specification, or to be a basis for appraising the conformance of actual implementations, or to provide a sufficient level of detail to define precisely the services and protocols of the management architecture. Rather, this part of ISO/IEC 7498 provides a conceptual and functional framework which allows independent teams of experts to work productively on the development of management standards.

This part of ISO/IEC 7498 provides an extension to ISO/IEC 7498 and therefore assumes as a basis the concepts and terminology included therein. The objective of this document is to describe a framework for those management activities pertinent to OSI, and to identify the management services which are supported by OSI Management protocols.

The description of the Management Framework given in this part of ISO/IEC 7498 is developed in stages:

Clause 1 defines the scope of this part of ISO/IEC 7498.

Clause 2 lists related OSI Standards.

DOCKE

Clause 3 defines terms and abbreviations used in this part of ISO/IEC 7498

Clause 4 provides the description of general concepts relating to management.

Clause 5 defines a model for OSI Management.

Clause 6 introduces the areas of OSI Management standardization, specifies how each of the component parts of OSI Management operate and defines the form of management information exchanges.

Management is manifest in a number of ways. Management is related to activities which control or monitor the use of resources. Within *Open Systems* the resources can be those which provide data storage or processing capabilities, or they can be those which provide interconnection capabilities. It is only the latter and the communications concerning their management which fall within the scope of OSI Management standardization.

Human beings are ultimately responsible for managing the OSI Environment, although responsibilities may be delegated to automated processes.

Find authenticated court documents without watermarks at docketalarm.com.

Information processing systems — Open Systems Interconnection — Basic Reference Model —

Part 4 : Management framework

1 Scope

This part of ISO/IEC 7498 establishes a framework for coordinating the development of existing and future standards for OSI Management, and is provided for reference by those standards.

lt

a) defines terminology of and describes concepts for OSI Management;

b) provides a structure for OSI Management together with an overview of the objectives of and facilities provided by OSI Management; and

c) describes OSI Management activities.

This part of ISO/IEC 7498 does not specify services or protocols for OSI Management. It is neither an implementation specification for systems, nor a basis for appraising the conformance of implementations.

2 Normative references

DOCKE

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 7498. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO/IEC 7498 are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO/IEC 7498:1984, Information processing systems - Open Systems Interconnection - Basic Reference Model.

ISO/IEC 7498-2:1988, Information processing systems - Open Systems Interconnection - Basic Reference Model - Part 2: Security Architecture.

3 Definitions and abbreviations

3.1 This part of ISO/IEC 7498 makes use of the OSI terminology defined in ISO/IEC 7498, specifically:

- a) (N)-entity
- b) (N)-layer
- c) (N)-protocol
- d) (N)-protocol-data-unit
- e) open system
- f) systems management

3.2 Terms defined in ISO/IEC 7498 which are redefined for the purposes of this part of ISO/IEC 7498:

3.2.1 Systems management application-entity: An application-entity for the purpose of systems management communication.

3.3 For the purpose of this part of ISO/IEC 7498, the following definitions apply:

3.3.1 OSI Management: The facilities to control, coordinate and monitor the resources which allow communications to take place in the OSI Environment.

3.3.2 (N)-layer operation: The monitoring and control of a single instance of communication.

3.3.3 Managed object: The OSI Management view of a resource within the OSI Environment that may be managed through the use of OSI Management protocol(s).

3.3.4 Management Information Base: The conceptual repository of management information within an open system.

DOCKET A L A R M



Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.