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## **Information processing systems — Open Systems Interconnection — File Transfer, Access and Management —**

### **Part 4 : File Protocol Specification**

*Systèmes de traitement de l'information — Interconnexion de systèmes ouverts — Gestion, accès et transfert de fichier —*

*Partie 4 : Spécification du protocole de transfert de fichier*

Reference number  
ISO 8571-4 : 1988 (E)

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8571-4 was prepared by Technical Committee ISO/TC 97, *Information processing systems*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

ISO 8571 consists of the following parts, under the general title *Information processing systems — Open Systems Interconnection — File Transfer, Access and Management*

- *Part 1 : General introduction*
- *Part 2 : Virtual Filestore Definition*
- *Part 3 : File Service Definition*
- *Part 4 : File Protocol Specification*

Annexes A and B form an integral part of this International Standard. Annex C is for information only.

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# Information processing systems — Open Systems Interconnection — File Transfer, Access and Management —

## Part 4 : File Protocol Specification

### 0 Introduction

ISO 8571 is one of a set of International Standards produced to facilitate the interconnection of computer systems. Its relation to other International Standards in the set is defined by the Reference Model for Open Systems Interconnection (ISO 7498). The Reference Model subdivides the area of standardization for interconnection into a series of layers of specification, each of manageable size.

The aim of Open Systems Interconnection is to allow, with a minimum of technical agreement outside the interconnection standards, the interconnection of computer systems:

- a) from different manufacturers,
- b) under different managements,
- c) of different levels of complexity,
- d) of different ages.

ISO 8571 defines a file service and specifies a file protocol available within the application layer of the Reference Model. The service defined is of the category Application Service Element (ASE). It is concerned with identifiable bodies of information which can be treated as files, and may be stored within open systems or passed between application processes.

ISO 8571 defines a basic file service. It provides sufficient facilities to support file transfer, and establishes a framework for file access and file management. ISO 8571 does not specify the interfaces to a file transfer or access facility within the local system.

ISO 8571 consists of the following four parts:

- Part 1: General introduction
- Part 2: Virtual Filestore definition
- Part 3: File Service definition
- Part 4: File Protocol specification

This part of ISO 8571 contains the following annexes which form part of the standard:

- Annex A - Protocol State Tables;
- Annex B - Reference to FTAM PDU Definitions;

and the following annex which does not form part of the standard:

- Annex C - ASN.1 cross reference.

### 1 Scope

ISO 8571-4 consists of four main sections:

- a) the basic protocol (in sections two and three), which supports the internal file service;
- b) the error recovery protocol (in section four), which supports the external file service.

For each of these, ISO 8571-4 includes a formal statement of the nature of the automaton giving the necessary behaviour of each of the participating entities. It states:

- 1) the actions to be taken on receiving request and response primitives issued by a file service user;
- 2) the actions to be taken on receiving indication and confirm primitives issued by the Presentation Service provider;
- 3) the actions to be taken as a result of events within the local system.
- c) the definition (in section five) of the abstract syntax required to convey the file protocol control information.
- d) the conformance requirements to be met by implementors of this protocol (in section six).

The scope of the File Protocol is limited to the interconnection of systems; it does not specify or restrict the possible implementation of interfaces within a computer system.

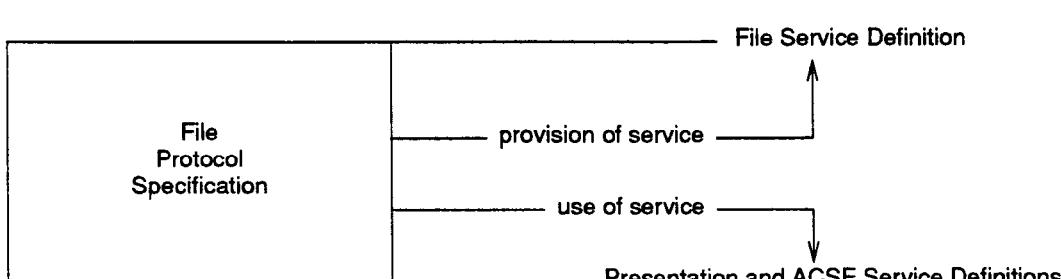


Figure 1 — Relationship between file protocol and service definitions