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

Part 3 : File Service Definition

*Systemes de traitement de l'information — Interconnexion de systemes ouverts — Gestion,
accès et transfert de fichier —*

Partie 3 : Définition du service de transfert de fichier

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 8571-3 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, B, C, D and E form an integral part of this International Standard.

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

Part 3 : File Service Definition

0 Introduction

ISO 8571 is one of a set of International Standards produced to facilitate the interconnection of computer systems. It is related to other International Standards in the set as 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, which 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.

It is recognised that, with respect to Communication Quality of Service, (described in 14.1.2.16), work is still in progress to provide an integrated treatment of quality of service across all of the layers of the OSI Reference Model and to ensure that the individual treatments in each layer service satisfy overall quality of service objectives in a consistent manner. As a consequence, an addendum may be added to this International Standard at a later time which reflects further quality of service developments and integration.

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 - Diagnostic parameter values
- Annex B - Relation of attributes to primitives
- Annex C - File transfer with commitment control
- Annex D - Reference to FTAM control information
- Annex E - State transition diagrams

1 Scope and field of application

This part of ISO 8571 defines in an abstract way the externally visible file transfer, access and management service within the OSI Application Layer in terms of:

- a) the primitive actions and events of the service;
- b) the parameter data associated with each primitive action and event;
- c) the relationship between, and the valid sequences of, these actions and events.

The service defined in ISO 8571-3 is that which is provided by the OSI file transfer, access and management protocol ISO 8571-4 in conjunction with the Association Control Service Elements ISO 8649 and with the Presentation service ISO 8822.

ISO 8571-3 does not specify individual implementations or products, nor does it constrain the implementation of entities and interfaces within a computer system. There is, therefore, no conformance to this part of ISO 8571.

2 References

ISO 7498, *Information Processing Systems - Open Systems Interconnection - Basic Reference Model*.

ISO/TR 8509, *Information Processing Systems - Open Systems Interconnection - Service Conventions*.

ISO 8571, *Information Processing Systems - Open Systems Interconnection - File transfer, access and management*.

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

ISO 8649, *Information Processing Systems - Open Systems Interconnection - Service definition for the Association Control Service Element*.

ISO 8822, *Information Processing Systems - Open Systems Interconnection - Connection-oriented presentation service definition*.

ISO 8831, Information Processing Systems -Open Systems Interconnection - Job Transfer and Manipulation Concepts and Services.

ISO 9804, Information Processing Systems -Open Systems Interconnection - Definition of Application Service Elements - Commitment, Concurrency and Recovery.¹⁾

ISO 9805, Information Processing Systems -Open Systems Interconnection - Specification of protocols for Application Service Elements - Commitment, Concurrency and Recovery.¹⁾

¹⁾ At present at the stage of draft; publication anticipated in due course.