

Information technology — International Standardized Profiles AFTnn — File Transfer, Access and Management —

**Part 3: AFT11 — Simple File Transfer
Service (unstructured) (regional
variant of ISO/IEC ISP 10607-3:1995)**

The European Standard EN ISP 10607-3:1996 has the status of a
British Standard

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National foreword

This British Standard is the English language version of EN ISP 10607-3:1996. It is derived from ISO/IEC ISP 10607-3:1995 with approved European variations. It supersedes BS EN ISP 10607-3:1994 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee IST/21, Open Systems Interconnection, Data Management and Open Distributed Processing, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or using the “Find” facility of the BSI Standards Electronic Catalogue.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN ISP title page, page 2, the ISO/IEC ISP title page, pages ii to iv, pages 1 to 27 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Amendments issued since publication

Amd. No.	Date	Comments

This British Standard, having been prepared under the direction of the DISC Board, was published under the authority of the Standards Board and comes into effect on 15 March 1997

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English version

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Service (unstructured) (regional variant of
ISO/IEC ISP 10607-3:1995)

Technologies de l'information — Profils
normalisés internationaux AFTnn — Transfert,
accès et gestion de fichier — Partie 3:
AFT11 — Service de transfert simple de fichier
(non structuré) (variante régionale de l'ISO/IEC
ISP 10607-3:1995)

Informationstechnik — Internationale
Profilnormen AFTnn — Dateiübermittlung,
Zugriff und Verwaltung — Teil 3:
AFT11 — Einfache datenübermittlungsdienste
(unstrukturiert) (Regionale Version von
ISO/IEC ISP 10607-3:1995)

This European Standard was approved by CEN on 1996-08-09. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

The text of the International Standard from Technical Committee ISO/IEC/JTC 1 “Information Technologies” of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) has been taken over as an European Standard by the Technical Board of CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 1997, and conflicting national standards shall be withdrawn at the latest by month of February 1997.

This European Standard supersedes EN ISP 10607-3:1993.

For the time being this standard exists in the English version only.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

ENDORSEMENT NOTICE

The text of the International Standard ISO/IEC ISP 10607-3:1995, was approved by CEN as a European Standard with agreed regional variations as given below. Section and line numbers correspond to the equivalent numbers in the international standard.

Diagnostic field detail — Section A.12.6

Replace A.12.6/7 with:

“For values of the “further details” term support of character strings from the ISO 646 IRV (GO, IR 6 including SPACE) and ISO 8859-1 (GO and G1, IR 6 and IR 100 including SPACE) coded character sets is required.”

G Sets supported — Section A.13.1.3

Replace A.13.1.3/1 with:

“For values of GraphicString support of character strings from the ISO 646 IRV (GO, IR 6 including SPACE) and ISO 8859-1 (GO and G1, IR 6 and IR 100 including SPACE) coded character sets is required.”

G and C sets supported — Section A.13.1.4

Replace A.13.1.4/1 with:

“For values of GeneralString support of character strings from the ISO 646 IRV (GO, IR 6 including SPACE) and ISO 8859-1 (GO and G1, IR 6 and IR 100 including SPACE) coded character sets and ISO 646 (CO) control character set is required.”

INTERNATIONAL
STANDARDIZED
PROFILE

ISO/IEC
ISP
10607-3

Second edition
1995-12-15

**Information technology — International
Standardized Profiles AFTnn — File
Transfer, Access and Management —**

Part 3:

AFT11 — Simple File Transfer Service
(unstructured)

*Technologies de l'information — Profils normalisés internationaux AFTnn —
Transfert, accès et gestion de fichier —*

Partie 3: AFT11 — Service de transfert simple de fichier (non structuré)



Reference number
ISO/IEC ISP 10607-3:1995(E)

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Descriptors: Data processing, information interchange, network interconnection, open systems interconnection, data transmission, files, access, management, communication procedure, profiles.

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. 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 or 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 JTC1. In addition to developing International Standards, ISO/IEC JTC1 has created a Special Group on Functional Standardization for the elaboration of International Standardized Profiles.

An International Standardized Profile is an internationally agreed, harmonized document which identifies a standard or group of standards, together with options and parameters, necessary to accomplish a function or set of functions.

Draft International Standardized Profiles are circulated to national bodies for voting. Publication as an International Standardized Profile requires approval by at least 75 % of the national bodies casting a vote.

International Standardized Profile ISO/IEC ISP 10607-3 was prepared with the collaboration of

- Asia-Oceania Workshop (AOW);
- European Workshop for Open Systems (EWOS);
- Open Systems Environment Implementors' Workshop (OIW).

ISO/IEC ISP 10607 consists of the following parts, under the general title *Information technology — International Standardized Profiles AFTnn — File Transfer, Access and Management:p*

- *Part 1: Specification of ACSE, Presentation and Session protocols for the use by FTAM*
- *Part 2: Definition of document types, constraint sets and syntaxes*
- *Part 3: AFT11 — Simple File Transfer Service (unstructured)*
- *Part 4: AFT12 — Positional File Transfer Service (flat)*
- *Part 5: AFT22 — Positional File Access Service (flat)*
- *Part 6: AFT3 — File Management Service*

This second edition cancels and replaces the first edition (ISO/IEC ISP 10607-3:1990), which has been technically revised.

Annexes A and B form an integral part of this part of ISO/IEC ISP 10607. Annexes C and D are for information only.

Introduction

This part of ISO/IEC ISP 10607 is defined within the context of Functional Standardization, in accordance with the principles specified by ISO/IEC TR 10000, "Framework and Taxonomy of International Standardized Profiles". The context, of Functional Standardization is one part of the overall field of Information Technology (IT) standardization activities, covering base standards, profiles, and registration mechanisms. A profile defines a combination of base standards that collectively perform a specific well-defined IT function. Profiles standardize the use of options and other variations in the base standards, and provide a basis for the development of uniform, internationally recognized system tests.

One of the most important roles for an ISP is to serve as the basis for the development (by organizations other than ISO and IEC) of internationally recognized tests and test centres. ISPs are produced not simply to legitimize a particular choice of base standards and options, but to promote real system interoperability. The development and widespread acceptance of tests based on this and other ISPs is crucial to the successful realization of this goal.

The text for this part of ISO/IEC ISP 10607 was developed in close co-operation among the FTAM Expert Groups of the three International OSI/OSE Workshops: OSE Implementors' Workshop (OIW), the European Workshop for Open Systems (EWOS) and the Asia-Oceania Workshop (AOW). This part of ISO/IEC ISP 10607 is harmonized among these three Workshops and it was finally ratified by the Workshops' plenary assemblies.

1 Scope

1.1 General

This part of ISO/IEC ISP 10607 (AFT11) covers transfer of files between the filestores of two end systems, using the OSI connection-mode transport service to provide the interconnection. One end system acts in the initiator role and requests access to the file, the other end system acts in the responder role and provides access to the file in the virtual filestore.

These role combinations and the interoperability are shown in Table 1.

Table 1 — Interoperable configurations

		Initiator		Responder	
		Sender	Receiver	Sender	Receiver
Initiator	Sender				x
	Receiver			x	
Responder	Sender		x		
	Receiver	x			

Transfer of files is supported for files with an unstructured constraint set and containing binary or character data.

This part of ISO/IEC ISP 10607 specifies implementations that support file transfer, i.e. the ability to

- a) either read a complete file, or
- b) write (replace and/or extend) to a file, or
- c) both;

and optionally to

- a) create and delete a file, and
- b) read the attributes of a file.

This part of ISO/IEC ISP 10607 specifies how the OSI FTAM application standard shall be used to provide the functions defined above. It does not specify total system capability. In particular, a system may operate this profile and at the same time engage in other communications. The requirements placed on an implementation in this part of ISO/IEC ISP 10607 are solely those necessary for operation of the protocol specified.

This part of ISO/IEC ISP 10607 describes the actions and attributes of the virtual filestore, and the service provided by the file service provider to file service users, together with the necessary communications between the initiator and the responder.

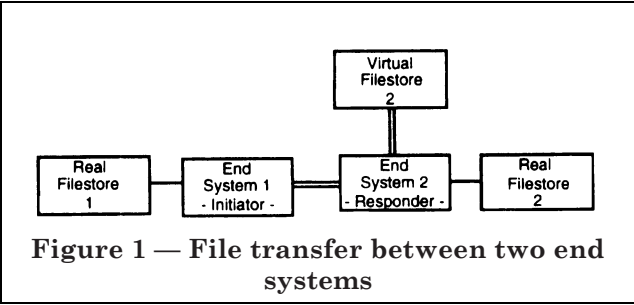
1.2 Position within the taxonomy

This part of ISO/IEC ISP 10607 is identified in ISO/IEC TR 10000-2 as "AFT11, Simple File Transfer Service (unstructured)"

It may be combined with any T-Profiles (see ISO/IEC TR 10000) specifying the OSI connection-mode transport service.

1.3 Scenario

The model used is one of two end systems establishing an association and transferring files into and out of the responder's virtual filestore as shown in Figure 1.



Specifications of this part of ISO/IEC ISP 10607 apply on the double lines of figure 1. The mapping between the virtual filestore and the real filestore together with the local data management system is not defined in this part of ISO/IEC ISP 10607.

This part of ISO/IEC ISP 10607 defines the selection of specific virtual filestore options, file service options and file protocol options. The required functions from the supporting protocol stack of ACSE, presentation and session are specified in ISO/IEC ISP 10607-1 (see also Table 2).

Table 2 — Profile Stack

Application Layer	ISO 8571 ISO/IEC 8650
Presentation Layer	ISO/IEC 8824-1, ISO/IEC 8825-1, ISO/IEC 8823
Session Layer	ISO/IEC 8327

The document types, constraint sets and syntaxes which are referenced in this part of ISO/IEC ISP 10607 are defined in ISO 8571-2 and in ISO/IEC ISP 10607-2.

¹⁾ To be published.

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC ISP 10607. At the time of publication, the editions indicated were valid. All documents are subject to revision, and parties to agreements based on this part of ISO/IEC ISP 10607 are warned against automatically applying any more recent editions of the documents listed below, since the nature of references made by ISPs to such documents is that they may be specific to a particular edition. Members of IEC and ISO maintain registers of currently valid International Standards and ISPs, and ITU-T maintains published editions of its current Recommendations.

Corrigenda to the base standards referenced:
See annex C for a complete list of these documents which are identified in this part of ISO/IEC ISP 10607.

2.1 Identical Recommendations | International Standards

- ITU-T Recommendation X.225 (1994) | ISO/IEC 8327-1: ¹⁾, *Information technology — Open Systems Interconnection — Connection-oriented session protocol: Protocol specification.*
- ITU-T Recommendation X.226 (1994) | ISO/IEC 8823-1:1994, *Information technology — Open Systems Interconnection — Connection-oriented presentation protocol: Protocol specification.*
- ITU-T Recommendation X.227 (1995) | ISO/IEC 8650-1: ¹⁾, *Information technology — Open Systems Interconnection — Connection-oriented protocol for the Association Control Service Element: Protocol specification.*
- ITU-T Recommendation X.680 (1994) | ISO/IEC 8824-1:1995, *Information technology — Abstract Syntax Notation One (ASN.1): Specification of basic notation.*
- ITU-T Recommendation X.690 (1994) | ISO/IEC 8825-1:1995, *Information technology — ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER).*

2.2 Additional references

- ISO/IEC 646:1991, *Information technology — ISO 7-bit coded character set for information interchange.*