

**Implementation of ISO/IEC
ISP 10607-3 : 1990**

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

**Part 3 : AFT 11 — Simple File Transfer
Service (unstructured)**

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Amendment No. 0
published and effective from 15 May 1994
to BS ISO/IEC ISP 10607-3 : 1990

Information technology — International Standardized Profiles
AFTnn — File Transfer, Access and Management —
Part 3: AFT 11 — Simple File Transfer Service (unstructured)

NOTE. The European Committee for Standardization (CEN) has accepted ISO/IEC ISP 10607-3 : 1990 (as corrected and reprinted 1991-04-15) as a European Standard designated as EN ISP 10607-3 : 1993. This amendment implements EN ISP 10607-3 : 1993 as a British Standard in the BS EN series.

Implementation of European Standard

Front cover

Delete the existing cover page and substitute the attached.

AMD 8196/May 1994

National foreword

At the end of paragraph 1 insert the following new paragraph.

'In 1993 the European Committee for Standardization (CEN) accepted ISO/IEC ISP 10607-3 : 1990 (as corrected and reprinted 1991-04-15) as European Standard EN ISP 10607-3 : 1993. As a consequence of implementing the European Standard this British Standard, as amended by its corrigendum (issued with BS ISO/IEC ISP 10607-3 : 1990), is renumbered as BS EN ISP 10607-3 and any reference to BS ISO/IEC ISP 10607-3 should be read as a reference to BS EN ISP 10607-3.'

AMD 8196/May 1994

New EN title page and foreword

Immediately after the national foreword, insert the attached new EN title page and foreword page.

AMD 8196/May 1994

ISO text (Corrigendum to BS ISO/IEC ISP 10607-3 : 1990)

Insert the following as appropriate.

AMD 8196/May 1994

**Implementation of
EN ISP 10607-3 : 1993**

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

**Part 3: AFT 11 — Simple File Transfer
Service (unstructured)**

The European Standard EN ISP 10607-3 : 1993 has the status of a
British Standard

Technologies de l'information — Profil
normalisé international AFTnn — Transfert,
accès et gestion de fichier —
Partie 3: AFT 11 — Service simple de fichier
(non structuré)

Informationstechnik — Internationale
Norm-Profil AFTnn — Dateiübermittlung,
Zugriff und Verwaltung —
Teil 3: AFT 11 — Einfache
Dateiübermittlungsdienste (unstrukturiert)

UDC 681.3.01/02 : 621.39

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UDC 681.3.01/02 : 621.39

Descriptors: Data processing, information interchange, open systems interconnection, data transfer, communication procedure, files, services

English version

Information technology — International Standardized Profiles AFTnn — File Transfer, Access and Management — Part 3: AFT 11 — Simple File Transfer Service (unstructured)

(regional variant of ISO/IEC ISP 10607-3 : 1990, corrected and reprinted 1991-04-15)

Technologies de l'information — Profil normalisé
international AFTnn — Transfert, accès et gestion
de fichier —
Partie 3: AFT 11 — Service simple de transfert de
fichier (non structuré)
(variante régionale ISO/IEC ISP 10607-3 : 1990,
corrigée et réimprimée 1991-04-15)

Informationstechnik — Internationale
Norm-Profil AFTnn — Dateiübermittlung, Zugriff
und Verwaltung —
Teil 3: AFT 11 — Einfache
Dateiübermittlungsdienste (unstrukturiert)
(regionale Version von ISO/IEC ISP 10607-3 : 1990
geändert und neu gedruckt, 1991-04-15)

This European Standard was approved by CEN on 1993-11-15. 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.

This European Standard exists 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 Technical Board has decided to submit the International Standard

Information technology — International Standardized Profiles AFTnn — File Transfer, Access and Management — Part 3: AFT 11 — Simple File Transfer Service (unstructured) (regional variant of ISO/IEC ISP 10607-3 : 1990, corrected and reprinted 1991-04-15)

for adoption by the Unique Acceptance Procedure (UAP), in accordance with clause 4.6 of the CEN/CENELEC Internal Regulations, Part 2 of April 1990.

This European Standard, EN ISP 10607-1 : 1993 and EN ISP 10607-2 : 1993 supersede ENV 41204 : 1991 which shall be withdrawn.

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

This document is the third part of a multi-part Functional Standard identified in ISO/IEC TR 10000-2. In M-IT-02 this standard is identified under 'AFT 11 Simple File Transfer Service (unstructured)'.

M-IT-02 CEN/CENELEC/ETSI Memorandum on taxonomy of profiles and directory of functional standards.

Regional variations to ISO/IEC ISP 10607-3 were prepared by EWOS and adopted by the EWOS/TA at their meeting of 1991-05-14/15.

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 June 1994, and conflicting national standards shall be withdrawn at the latest by June 1994.

In accordance with the CEN/CENELEC Internal Regulations, 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 United Kingdom.

Endorsement notice

The text of the International Standard ISO/IEC ISP 10607-3 : 1990 corrected and reprinted 1991-04-15, 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 (G0, IR 2 including SPACE) and ISO 8859-1 (G0 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 (G0, IR 2 including SPACE) and ISO 8859-1 (G0 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 (G0, IR 2 including SPACE) and ISO 8859-1 (G0 and G1, IR 6 and IR 100 including SPACE) coded character sets and ISO 646 (C0) control character set is required.'

Technical differences between EN ISP 10607-3 : 1993 and ENV 41204 : 1991

For the information of implementors, testers and purchasers this section lists the technical differences between EN ISP 10607-3 : 1993 and ENV 41204 : 1991.

Amendments and Corrigenda

EN ISP 10607-3 : 1993 includes normative references to Amendments and Corrigenda to the Base Standards referenced (ISO/IEC ISP 10607-3 : 1990 Annex B).

ENV 41204 : 1991 does not include such references.

FTAM Concurrency Control

The concurrency control parameter of F-SELECT PDUs, F-CREATE PDUs and F-OPEN PDUs is:

- optionally supported by an initiator implementation in EN ISP 10607-3 : 1993 (ISO/IEC ISP 10607-3 : 1990 clauses A.11.6, A.11.8 and A.11.12);
- supported by an initiator implementation in ENV 41204 : 1991 (Support Level Table 5).

Corrigendum to BS ISO/IEC ISP 10607-3 : 1990

**Information technology – International Standardized
Profiles AFT nn – File Transfer, Access and Management –**

Part 3 : AFT II - Simple File Transfer Service (unstructured)

NOTE. These corrections have been made to align this
BS Implementation with the corrected and reprinted edition of
ISO/IEC ISP 10607-3 : 1990 issued 15 April 1991.

Page iii. Foreword

Insert after paragraph 5 :

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

- *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*

Page 34. Annex B. ACSE

Delete 'ISO 8650/AM 1 : 1989'
Insert 'ISO 8650/Cor. 1 : 1990'

INTERNATIONAL STANDARDIZED PROFILE

ISO/IEC
ISP
10607-3

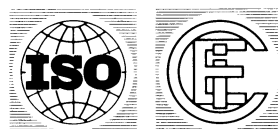
First edition
1990-12-15

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

Part 3: AFT 11 — Simple File Transfer Service (unstructured)

*Technologies de l'information — Profil normalisé international AFTnn — Transfert,
accès et gestion de fichier —*

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



Reference number
ISO/IEC ISP 10607-3 : 1990 (E)

AVA **Documents**
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Introduction

This International Standardized Profile (ISP) 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 ISP was developed in close co-operation among the FTAM Expert Groups of the three International OSI Workshops NIST Workshop for Implementors of OSI (NIST OIW), the European Workshop for Open Systems (EWOS) and the OSI Asia-Oceania Workshop (AOW). This ISP is harmonized among these three Workshops and it was finally ratified by the Workshops' plenary assemblies.

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 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. In addition to developing International Standards, ISO/IEC JTC 1 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);
- NIST OSI Implementors Workshop (NIST C:W).

Annexes A and B form an integral part of this part of ISO/IEC ISP 10607.

the local data management system is not part of 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 8650
Presentation Layer	ISO 8824, 8825 ISO 8823
Session Layer	ISO 8327

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 CCITT maintains published editions of its current Recommendations.

Amendments and corrigenda to the base standards referenced : See annex B for a complete list of these documents which are used in this part of ISO/IEC ISP 10607.

ISO 646:1983, *Information processing - ISO 7-bit coded character set for information interchange*.

ISO 4873:1986, *Information processing - ISO 8-bit code for information interchange - Structure and rules for implementation*.

ISO 6429:1988, *Information processing - Control functions for 7-bit and 8-bit coded character sets for character imaging devices*.

ISO 6937-2:1983, *Information processing - Coded character sets for text communication - Part 2 : Latin alphabetic and non-alphabetic graphic characters*.

ISO 8327:1987, *Information Processing Systems - Open Systems Interconnection - Basic Connection Oriented Session Protocol Specification*.

1) To be published.

ISO 8327/Add.2:---¹⁾, *Information processing systems - Open Systems Interconnection - Basic Connection Oriented Session Protocol Specification - ADDENDUM 2: Incorporation of unlimited user data*.

ISO 8571-1:1988, *Information processing systems - Open Systems Interconnection - File Transfer, Access and Management - Part 1 : General introduction*.

ISO 8571-2:1988, *Information processing systems - Open Systems Interconnection - File Transfer, Access and Management - Part 2 : Virtual Filestore Definition*.

ISO 8571-3:1988, *Information processing systems - Open Systems Interconnection - File Transfer, Access and Management - Part 3 : File Service Definition*.

ISO 8571-4:1988, *Information processing systems - Open Systems Interconnection - File Transfer, Access and Management - Part 4 : File Protocol Specification*.

ISO 8571-5:---¹⁾, *Information processing systems - Open Systems Interconnection - File Transfer, Access and Management - Part 5 : Protocol Implementation Conformance Statement Proforma*.

ISO 8650:1988, *Information processing systems - Open Systems Interconnection - Protocol Specification for the Association Control Service Element*.

ISO 8823:1988, *Information processing systems - Open Systems Interconnection - Connection Oriented Presentation Protocol Specification*.

ISO 8824:1987, *Information processing systems - Open Systems Interconnection - Specification of Abstract Syntax Notation One (ASN.1)*.

ISO 8825:1987, *Information processing systems - Open Systems Interconnection - Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1)*.

ISO 8859-1:1987, *Information processing - 8-bit single-byte coded graphic character sets - Part 1 - Latin alphabet No. 1*.

ISO/IEC TR 10000-1:1990, *Information technology - Framework and taxonomy of International Standardized Profiles - Part 1 : Framework*.

ISO/IEC TR 10000-2:1990, *Information technology - Framework and taxonomy of International Standardized Profiles - Part 2 : Taxonomy of Profiles*.

ISO/IEC ISP 10607-1:1990, *Information technology - International Standardized Profiles AFTnn - File Transfer, Access and Management - Part 1 : Specification of ACSE, Presentation and Session Protocols for the use*

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

Part 3:

AFT 11 — Simple File Transfer Service (unstructured)

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.

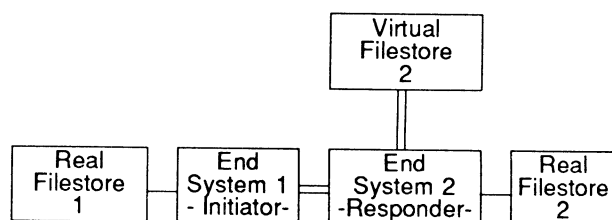


Figure 1 - File transfer between two end systems

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