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**Terminal Equipment (TE);
Conformance testing for file transfer over
the Integrated Services Digital Network (ISDN);
Part 1: Profile Test Specification Summary (PTS-Summary)
for the FTAM profile (ETS 300 388)**

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

X.400: c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

Tel.: +33 92 94 42 00 - Fax: +33 93 65 47 16

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Foreword

Part 1 of this final draft Interim European Telecommunication Standard (I-ETS) has been produced by the Terminal Equipment (TE) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Voting phase of the ETSI standards approval procedure.

An ETSI standard may be given I-ETS status either because it is regarded as a provisional solution ahead of a more advanced standard, or because it is immature and requires a "trial period". The life of an I-ETS is limited to three years after which it can be converted into an ETS, have its life extended for a further two years, be replaced by a new version, or be withdrawn.

This is the first Part of an I-ETS which comprises of two parts as follows:

"Terminal Equipment (TE); Conformance testing for file transfer over the Integrated Services Digital Network (ISDN);

Part 1: Profile Test Specification Summary (PTS-Summary) for the FTAM profile (ETS 300 388);

Part 2: Profile Specific Test Specification (PSTS) for the FTAM profile (ETS 300 388)".

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1 Scope

Part 1 of this I-ETS describes all the references used for testing the File Transfer Access and Management (FTAM) simple file transfer profile (ETS 300 388 [1]).

2 Normative references

This I-ETS incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this I-ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ETS 300 388 (1995): "Integrated Services Digital Network (ISDN); File Transfer and Access Management (FTAM) over ISDN based on simple file transfer protocol".
- [2] ISO/IEC ISP 10607-3 (1990): "Information technology - International Standardized Profiles AFTnn - File Transfer, Access and Management - Part 3: AFT11 - Simple File Transfer Service (unstructured)".
- [3] ISO/IEC TR 10000-2 (1994): "Information technology - Framework and taxonomy of International Standardized Profiles - Part 2: Principles and Taxonomy for OSI Profiles".
- [4] ISO/IEC ISP 10607-6 (1991): "Information technology - International Standardized Profiles AFTnn - File Transfer, Access and Management - Part 6: AFT3 - File Management Service".
- [5] ISO/IEC 9646, Parts 1 to 7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework -
- Part 1 (1994): General Concepts,
- Part 2 (1994): Abstract Test Suite specification,
- Part 3 (1992): The Tree and Tabular Combined Notation (TTCN),
- Part 4 (1994): Test realization,
- Part 5 (1994): Requirements on test laboratories and clients for the conformance assessment process,
- Part 6 (1994): Protocol profile test specification,
- Part 7 (1993) [DIS]: "Implementation conformance statements".
- [6] EWOS ED 88 (1994): "EWOS/CTS FTAM Abstract Test Suite, (Binders 0 to 12)".
- NOTE: EWOS ED 88 (1994) can be obtained in its .MP format from the EWOS Secretariat, Rue de Stasart, 36; B-1050 Brussels, Belgium (Tel: +32 2 511 74 55 or fax: +32 2 511 87 23).
- [7] Draft prl-ETS 300 489-2 (1995): "Terminal Equipment (TE); Conformance testing for file transfer over the Integrated Services Digital Network (ISDN); Part 2: Profile Specific Test Specification (PSTS) for the FTAM profile (ETS 300 388)".

- [8] ISO 8571, Parts 1 to 4: "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".
- [9] ISO/IEC 8571-5 (1990): "Information processing systems - Open Systems Interconnection - File Transfer, Access and Management - Part 5: Protocol Implementation Conformance Statement Proforma".
- [10] ISO/IEC 10170-1 (1993): "Information technology - Open Systems Interconnection - Conformance test suite for the FTAM Protocol - Part 1: Test suite structure and test purposes".
- [11] CCITT Recommendation X.217 [ISO 8649] (1992): "Service definition for the association control service element".
- [12] CCITT Recommendation X.227 (1992): "Connection-oriented protocol specification for the association control service-element".
- [13] ISO/IEC 10169-1 (1993): "Information technology - Open Systems Interconnection - Conformance test suite for the ACSE Protocol - Part 1: Test suite structure and test purposes".
- [14] ISO/IEC 8822 (1994): "Information technology - Open Systems Interconnection - Presentation service definition".
- [15] ISO/IEC 8823-1 (1994): "Information technology - Open Systems Interconnection - Connection oriented presentation protocol: Protocol specification".
- [16] ISO/IEC 10729-1: (1993): "Information technology - Open Systems Interconnection - Conformance test suite for the presentation layer - Part 1: Test suite structure and test purposes for the presentation protocol".
- [17] ISO 8327: "Information processing systems - Open Systems Interconnection - Basic connection oriented session protocol specification".
- [18] ISO/IEC 10168-1 (1993): "Information technology - Open Systems Interconnection - Conformance test suite for the Session Protocol - Part 1: Test suite structure and test purposes".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this part of the I-ETS, the definitions given in ISO/IEC 9646-7 [5], ISO 8571 [8] and ETS 300 388 [1] apply.

3.2 Abbreviations

For the purposes of this part of the I-ETS, the following abbreviations apply:

AFT	Application File Transfer
ATM	Abstract Test Method
ATS	Abstract Test Suite
CTS	Conformance Testing Services
EWOS	European Workshop on Open Systems
FTAM	File Transfer Access and Management
ICS	Implementation Conformance Statement
ISDN	Integrated Services Digital Network
IXIT	Implementation eXtra Information for Testing
MP	Machine Processable
OSTC	Open Systems Testing Consortium
PICS	Protocol Implementation Conformance Statement
PTS	Profile Test Suite
PTS-Summary	Profile Test Suite Summary
RL	Requirement List
SCS	System Conformance Statement
TE	Terminal Equipment
TSS&TP	Test Suite Structure and Test Purposes
TTCN	Tree and Tabular Combined Notation

4 General

This Part of this I-ETS tests simple file transfer over the ISDN FTAM Simple File Transfer profile (ETS 300 388 [1]) and describes all references used to realize a conformance test.

Two classes of conformance are defined.

The first is identical to ISO/IEC ISP 10607-3 [2] (referred to as Application File Transfer (AFT) 11 in ISO/IEC TR 10000-2 [3]) and is called the basic class.

The second class is the fully ETSI/ISDN conformant class. It includes all basic facilities and additional recovery facilities. It also includes the management capabilities from ISO/IEC ISP 10607-6 [4] (referred to as AFT 3 in ISO/IEC TR 10000-2 [3]).

Profile Test Suites (PTS) for AFT 11 and AFT 3 profiles already exist. However, the tests for the full class profile do not include all existing ones and additional Test Cases are necessary. The references below are, therefore, directly to the existing PTS originally developed through the Conformance Testing Services (CTS) programs, later maintained by the Open Systems Testing Consortium (OSTC) and then updated from the draft version of Tree and Tabular Combined Notation (TTCN) to full ISO/IEC 9646, Parts 1 to 7 [5] (TTCN version) by the European Workshop on Open Systems (EWOS).

NOTE: The existing PTS is given in a Machine-Processable format in EWOS ED 88 [6], Binders 0 to 12, which is available from the EWOS Secretariat.

5 Profile identification

Profile Identifier:	AFT 11 and AFT 3 from ISO/IEC TR 10000-2 [3]
Profile Specification:	ETS 300 388 [1], FTAM Simple file transfer profile
Profile Requirements List (RL)	ETS 300 388 [1]; annex A
Profile Specific Implementation eXtra Information for Testing (IXIT) proforma	Draft prl-ETS 300 489-2 [7]
System Conformance Statement (SCS) proforma	Draft prl-ETS 300 489-2 [7]

6 Elements of the profile test specification

6.1 Conformance testing specification for basic FTAM file transfer

Protocol:	ISO 8571, Parts 1 to 4 [8]
Protocol Implementation Conformance Statement (PICS) proforma:	ISO/IEC 8571-5 [9], FTAM
Test Suite Structure and Test Purposes (TSS&TP):	ISO/IEC 10170-1 [10] FTAM, TSS&TP
Abstract Test Method (ATM):	Single layer remote

6.1.1 FTAM initiator ATS

Abstract Test Suite (ATS) base specification:	AFT 11 Initiator - EWOS ED 88 [6]
Partial IXIT proforma:	AFT 11 Initiator - EWOS ED 88 [6]

6.1.2 FTAM responder ATS

ATS base specification:	AFT 11 Responder - EWOS ED 88 [6]
Partial IXIT proforma:	AFT 11 Responder - EWOS ED 88 [6]

6.2 Conformance testing specification for full FTAM file transfer and management

Protocol:	ISO 8571 [8], FTAM
PICS proforma:	ISO/IEC 8571-5 [9], FTAM
TSS&TP:	ISO/IEC 10170-1 [10], FTAM TSS&TP
ATM:	Single layer remote

6.2.1 FTAM initiator ATS

ATS base specification:	AFT 11 Initiator - EWOS ED 88 [6]
Partial IXIT proforma:	AFT 11 Initiator - EWOS ED 88 [6]

6.2.2 FTAM responder ATS

ATS base specification:	AFT 11 Responder - EWOS ED 88 [6]
Partial IXIT proforma:	AFT 11 Responder - EWOS ED 88 [6]

6.2.3 FTAM restart and recovery ATS

ATS base specification:	AFT 11 Restart and Recovery - EWOS ED 88 [6]
Partial IXIT proforma:	AFT 11 Restart and Recovery - EWOS ED 88 [6]

6.2.4 FTAM management ATS

ATS base specification:	AFT 3 Management - EWOS ED 88 [6]
Partial IXIT proforma:	AFT 11 Management - EWOS ED 88 [6]

6.3 Conformance testing specification for Association Control Service Element (ACSE)

Protocol:	Association Control Service Element, CCITT Recommendation X.217 [11] and CCITT Recommendation X.227 [12]
PICS proforma:	ACSE Protocol and PICS, CCITT Recommendation X.227 [12] - Part 2 TSS&TP: ISO/IEC 10169-1 [13] TSS&TP for ACSE
ATM:	Single layer remote embedded
ATS base specification:	ACSE ATS from EWOS ED 88 [6]
Partial IXIT proforma:	ACSE ATS from EWOS ED 88 [6]

6.4 Conformance testing specification for presentation

Protocol:	ISO/IEC Connection Oriented Presentation Protocol, ISO/IEC 8822 [14] and ISO/IEC 8823-1 [15].
PICS proforma:	Presentation Protocol and PICS, ISO/IEC 8823-1 [15]
TSS&TP:	ISO/IEC 10729-1 [16] TSS&TP for the Presentation protocol
ATM:	Single layer remote embedded
ATS base specification:	Presentation ATS from EWOS ED 88 [6]
Partial IXIT proforma:	Presentation ATS from EWOS ED 88 [6]

6.5 Conformance testing specification for Session

Protocol:	Connection Oriented Session Protocol, ISO/IEC 8823-1 [15] and ISO 8327 [17]
PICS proforma:	Session Protocol and PICS, ISO/IEC 8823-1 [15]
TSS&TP:	ISO/IEC 10168-1 [18] TSS&TP for Session protocol
ATM:	Single layer remote embedded
ATS base specification:	Session ATS from EWOS ED 88 [6]
Partial IXIT proforma:	Session ATS from EWOS ED 88 [6]

7 Conformance testing specifications not related to any single component

Additional Test Cases specific for the profile: Draft prl-ETS 300 489-2 [7].

8 Conformance clause

The test realizer of a Means of Testing for this PTS-Summary shall comply with the requirements of ISO/IEC 9646 [5], Part 4.

In particular, the realisation of each referenced ATS shall conform to the ATS specification consistent with the modifications made by the PSTS referenced by this PTS Summary. The realization of the ATS within the PSTS shall conform to the PSTS.

Test laboratories running conformance test service according to this PTS-Summary shall comply with ISO/IEC 9646 [5], Part 5.

History

Document history			
August 1995	Public Enquiry	PE 90:	1995-08-21 to 1995-12-15
August 1996	Vote	V 108:	1996-08-05 to 1996-09-27