



# SLOVENSKI STANDARD

## SIST I-ETS 300 491-3 E1:2003

01-december-2003

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**Terminalska oprema (TE) – Preskušanje skladnosti prenosa datotek prek digitalnega omrežja z integriranimi storitvami (ISDN) – 3. del: Preskušanje skladnosti standarda ETS 300 075, omejenega z ETS 300 383 – Abstraktni preskušalni niz (ATS)**

Terminal Equipment (TE); Conformance testing for file transfer over the Integrated Services Digital Network (ISDN); Part 3: Conformance testing for ETS 300 075 restricted by ETS 300 383 - Abstract Test Specification (ATS)

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**ICS:**

33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
35.180	Terminalska in druga periferna oprema IT	IT Terminal and other peripheral equipment

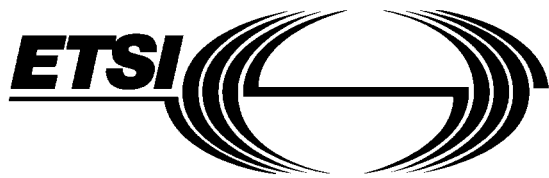
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Conformance testing for file transfer over  
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Part 3: Conformance testing for ETS 300 075  
restricted by ETS 300 383 - Abstract Test Suite (ATS)**

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## Foreword

Part 3 of this Interim European Telecommunication Standard (I-ETS) has been produced by the Terminal Equipment (TE) Technical Committee of the European Telecommunications Standards Institute (ETSI).

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it can be converted into an ETS, have its life extended for a further two years, be replaced by a new version, or be withdrawn.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 part of the I-ETS provides the EUROFILE profile conformance testing specification to ETS 300 383 [2]. To produce such a profile test specification an Abstract Test Suite (ATS) has been created for general aspects of file transfer over the Integrated Services Digital Network (ISDN) that are relevant for ETS 300 075 [1] and ETS 300 383 [2]. This I-ETS is not a complete conformance test specification to ETS 300 075 [1] but is restricted to ETS 300 383 [2]. This ATS should be used for further production of complete conformance testing for ETS 300 075 [1].

This is the third part of an I-ETS which comprises three parts as follows:

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

Part 1: ETS 300 075 Protocol Implementation Conformance Statement (PICS) proforma;

Part 2: ETS 300 075 Test Suite Structure and Test Purposes (TSS&TP);

**Part 3: Conformance testing for ETS 300 075 restricted by ETS 300 383 - Abstract Test Suite (ATS).**

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Date of adoption of this I-ETS:	30 August 1996
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## 1 Scope

Part 3 of this Interim European Telecommunication Standard (I-ETS) describes all the aspects of conformance testing for ETS 300 075 [1] restricted to ETS 300 383 [2] (EUROFILE profile). Currently this I-ETS describes only the common aspects of ETS 300 075 [1] and ETS 300 383 [2]. Specific aspects for ETS 300 383 [2] are detailed in I-ETS 300 490-3 [14].

The objective of this I-ETS is to provide an Abstract Test Suite (ATS) which provides conformance tests giving a high probability of inter-operability of two EUROFILE applications from different manufacturers over the Integrated Services Digital Network (ISDN). Thus, this test specification checks all the Protocol Data Units (PDUs) and Parameters of ETS 300 075 [1] in the context of ETS 300 383 [2].

ISO/IEC 9646 is used as the basis for the test methodology. Furthermore, this I-ETS follows the specific European Telecommunications Standards Institute (ETSI) rules specified in ETS 300 406.

Annex A (normative) provides the ATS in both graphical or machine processable electronic forms. The ATS describes a set of Test Cases based on the Test Suite Structure and Test Purposes given in I-ETS 300 491-2 [8].

## 2 Normative references

Part 3 of 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 part of the 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 300 075 (1994): "Terminal Equipment (TE); Processable data File transfer".
- [2] ETS 300 383 (1995): "Integrated Services Digital Network (ISDN); File transfer over the ISDN EUROFILE transfer profile".
- [3] ETS 300 012 (1992): "Integrated Service Digital Network (ISDN); Basic user-network interface, Layer 1 specification and test principles".
- [4] ETS 300 011 (1992): "Integrated Service Digital Network (ISDN); Primary rate user-network interface, Layer 1 specification and test principles".
- [5] ETS 300 125 (1991): "Integrated Service Digital Network (ISDN); User-network interface data layer link layer specification, Application of CCITT Recommendations Q.920/I.440 and Q.921/I.441".
- [6] ETS 300 102-1 (1993): "Integrated Services Digital Network (ISDN); User-network interface layer 3, Specifications for basic call control".
- [7] ETS 300 080 (1992): "Integrated Services Digital Network (ISDN); ISDN lower layer protocols for telematic terminals".
- [8] I-ETS 300 491-2 (1996): "Terminal Equipment (TE); Conformance testing for file transfer over the Integrated Services Digital Network (ISDN); Part 2: ETS 300 075 Test Suite Structure and Test Purposes (TSS&TP)".
- [9] ISO/IEC 9646-3 (1992): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: Tree and Tabular combined Notation (TTCN)".
- [10] ETS 300 079 (1991): "Integrated Services Digital Network (ISDN); Syntax-based Videotex End-to-end protocols, Circuit mode DTE-DTE".
- [11] I-ETS 300 236 (1993): "Terminal Equipment (TE); Syntax-based Videotex protocol, Terminal conformance testing".

- [12] I-ETS 300 491-1 (1996): "Terminal Equipment (TE); Conformance testing for file transfer over the Integrated Services Digital Network (ISDN); Part 1: ETS 300 075 Protocol Implementation Conformance Statement (PICS) proforma".
- [13] ISO/IEC 9646-5 (1992): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 5: Requirements on test laboratories and clients for the conformance assessment process".
- [14] I-ETS 300 490-3 (1996): "Terminal Equipment (TE); File transfer over the Integrated Services Digital Network (ISDN); Conformance testing specification - Part 3: Profile Specific Test Specification (PSTS) for the EUROFILE profile (ETS 300 383)".

### 3 Definitions and abbreviations

#### 3.1 Definitions

For the purposes of this part of the I-ETS, the definitions given in ISO/IEC 9646, ETS 300 075 [1] and ETS 300 383 [2] apply.

#### 3.2 Abbreviations

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

ASP	Abstract Service Primitive
ATM	Abstract Test Method
ATS	Abstract Test Suite
HLC	High Layer Compatibility
ICS	Implementation Conformance Statement
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
IXIT	Implementation extra Information for Testing
LT	Lower Tester
PCO	Point of Control and Observation
PCTR	Protocol Conformance Test Report
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
SBV	Syntax-Based Videotex
SCS	System Conformance Statement
SCTR	System Conformance Test Report
SUT	System Under Test
TC	Test Case
TDU	Telesoftware Data Unit
TE	Terminal Equipment
TSS&TP	Test Suite Structure and Test Purposes
TTCN	Tree and Tabular Combined Notation
UT	Upper Tester

### 4 General

This part of the I-ETS describes all the aspects of testing. This I-ETS is not fully developed because the testing is restricted by ETS 300 383 [2]. It covers the symmetrical service, the Telesoftware Data Unit (TDU) layer and Syntax-Based Videotex (SBV).

The ATS is specified in annex A.

NOTE: The ATS is written in Tree and Tabular Combined Notation (TTCN) and follows the rules of ISO/IEC 9646-3 [9]. The ATS exists in machine processable form (DIP4913.MP) and is the property of ETSI.

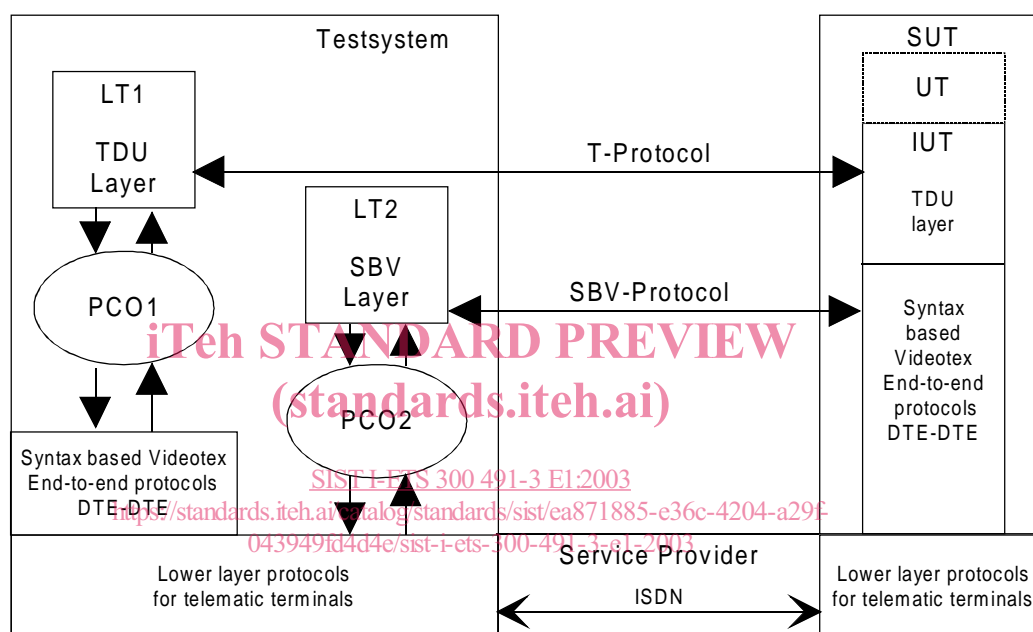
Additional selected Test Cases of other conformance test specifications are described in annex F.

## 5 Abstract test method

This clause describes the Abstract Test Method (ATM) and the Points of Control and Observation (PCO) used to test the simple file transfer over the ISDN.

The remote multi layer test method shall be used.

The following figure shows the ATM:



- LT** A Lower Tester (LT) is located in the test system. It controls and observes the behaviours of the Implementation Under Test (IUT).
- PCO1** PCO1 is defined as being between the T-Service user and T-Service provider (see ETS 300 075 [1], page 18, "Case of Syntax Based Videotex:"). PCO1 is the main PCO in the ATS.
- PCO2** PCO2 is defined as being below the Syntax-Based Videotex layer. It serves only for specific Test Cases to observe the behaviour of the SBV used (see ETS 300 075 [1], subclause 6.5). PCO2 serves only for specific Test Cases and does not serve to observe all Test Cases. The reason for PCO2, if the IUT sends T\_Abort or T\_Release, is that it is impossible to observe the reaction on PCO1.
- Service Provider** The Service Provider consists partly of SBV end-to-end protocols DTE-DTE (ETS 300 079 [10]) and lower layer protocols for telematic terminals (ETS 300 080 [7]).
- IUT** ETS 300 075 [1] restricted to EUROFILE profile is the IUT. It belongs to the System Under Test (SUT).
- UT** No explicit Upper Tester (UT) exists in the test system. However, the SUT needs to carry out some IUT actions at the user interface to achieve some effects on test co-ordination procedures. The control of the IUT is implied or informally expressed in the ATS, but no assumption shall be made regarding their feasibility or realisation.

**Figure 1: Abstract Test Method**