



SLOVENSKI STANDARD
SIST ETS 300 017 E1:2003

01-december-2003

Terminalska oprema (TE) – Preskusni postopki za sistem Teletex

Terminal Equipment (TE); Test procedures for Teletex

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Ta slovenski standard je istoveten z: **ETS 300 017 Edition 1**

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ICS:

33.050.30 Oprema za teleks, teletekst, Equipment for telex, teletext,
 telefaks telefax

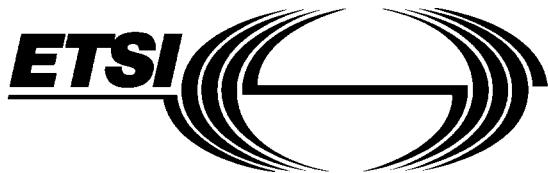
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EUROPEAN TELECOMMUNICATION STANDARD

ETS 300 017

September 1994

Source: ETSI TC-TE

Reference: T/TE 07-05

ICS: 33.020, 33.040.40

Key words: Teletex

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Terminal Equipment (TE);

Test procedures for Teletex

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Foreword

This European Telecommunication Standard (ETS) was produced by the Terminal Equipment (TE) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS contains the ETSI agreed and national tests. It is based on, and aligns with, the requirements for basic Teletex equipment given in the following ETS and ETR:

- ETS 300 015 (1994): "Terminal Equipment (TE); Basic and recommended additional requirements for terminal equipment supporting Teletex application" [11];
- ETR 052 (1993): "Terminal Equipment (TE); Service intercommunication requirements for Teletex terminal equipment".

This ETS does not replace CEPT Recommendation T/TE 07-02 (1988), reflecting the current situation for type approval and certification, and which co-exists with this ETS until it is adopted by ETSI as a full ETS.

Transposition dates	
Date of latest announcement of this ETS (doa):	30 November 1994
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 May 1995
Date of withdrawal of any conflicting National Standard (dow):	31 May 1995

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1 Scope

This ETS contains and refers to test procedures to facilitate member bodies verification of the protocol and service conformance of Teletex systems in order to ensure the international compatibility of Teletex. Furthermore, the specific Teletex service and protocol definitions of ETSI are considered to harmonise the test procedures for those requirements.

This ETS contains the ETSI agreed test cases which may be used by the ETSI member countries. It also contains national test requirements.

This ETS is only applicable when considered together with ITU-T Recommendation T.64 [5]. The test definitions for the related CCITT Recommendations, which define the Teletex service, are not duplicated in this ETS.

The ETSI and national test procedures contained herein are based on requirements for Teletex systems in three main areas:

- a) conformance testing procedures for Teletex defined in ITU-T Recommendation T.64 [5];
- b) characteristics of Teletex equipments, specified in ETS 300 015 [11];
- c) characteristics of Teletex equipments for Circuit Switched Public Data Networks (CSPDN) and Public Switched Data Networks (PSTN) for layers 2 and 3, specified in ITU-T Recommendation T 70 [6].

Therefore, the test procedures of this ETS cover all ETSI aspects of Teletex which have end-to-end significance. Thus, tests for the network dependent layers (layers 2 and 3) of CSPDN and PSTN are included.

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These test procedures do not supersede the relevant CCITT, ITU-T and ETSI standards which continue to be the definitive specifications for all aspects of the Teletex service.

The test procedures of this ETS, together with the test procedures in ITU-T, are intended to assist verification and cannot fully guarantee the compliance of Teletex systems to the relevant Recommendations and Standards.

The whole of ITU-T Recommendation T.64 [5] together with this ETS should be applied for a comprehensive test of a Teletex system.

This ETS refers to ETS 300 015 [11] which is the basis for the European Teletex terminal equipment specification.

This ETS reflects the definitions ETS 300 015 [11] as far as those requirements are testable or considered for testing.

Since the interworking with telex service became optional in CCITT Recommendation F.200 [9] and ITU-T Recommendation T.60 [1], all the tests related to the Teletex/telex interworking are also optional. Only in the case where the terminal provider declares the terminal supports this option do the tests become mandatory.

2 Normative references

This 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 ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ITU-T Recommendation T.60 (1993): "Terminal equipment for use in the teletex service".
- [2] ITU-T Recommendation T.61 (1993): "Character repertoire and coded character sets for the international teletex service".
- [3] ITU-T Recommendation T.62 (1993): "Control procedures for teletex and Group 4 facsimile services".
- [4] CCITT Recommendation T.63 (1988): "Provisions for verification of teletex terminal compliance".
- [5] ITU-T Recommendation T.64 (1993): "Conformance testing procedures for the teletex Recommendations".
- [6] ITU-T Recommendation T.70 (1993): "Network-independent basic transport service for the telematic services".
- [7] CCITT Recommendation T.90 (1992): "Characteristics and protocols for telematic services in ISDN".
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- [8] CCITT Recommendation T.390 (1988): "Teletex requirements for interworking with the telex service".
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- [9] CCITT Recommendation F.200 (1992): "Teletex service".
- [10] ITU-T Recommendation F.201: "Interworking between teletex service and telex service - General principles".
- [11] ETS 300 015 (1994): "Terminal Equipment (TE); Basic and additional requirements for terminal equipment supporting teletex application".
- [12] ETS 300 081 (1993): "Integrated Services Digital Network (ISDN); Teletex end-to-end protocol over the ISDN".
- [13] ETS 300 154 (1994): "Terminal Equipment (TE); Terminal characteristics for the telematic file transfer within the teletex service [ITU-T Recommendation T.571 (modified)]".
- [14] Draft prETS 300 243-1: "Terminal Equipment (TE); Programmable Communication Interface (PCI) APPLI/COM for facsimile group 3, facsimile group 4, teletex and telex services, Part 1: CCITT Recommendation T.611 (1992) [modified]".
- [15] ENV 41104 (1987): "Packet-switched data networks; Permanent access (FS T/31)".
- [16] ENV 41106 (1988): "Digital data circuit (circuit switched data networks); Provision of the OSI connection-mode transport service in the T.70 case for Telematic end systems (FS T/41)".

- [17] ENV 41105 (1988): "Packet-switched data networks; switched access (FS T/32)".
- [18] NET 1: "Approval requirements for data terminal equipment to connect to CSPN and leased circuits using CCITT Recommendation X.21 interface".
- [19] NET 2: "Approval requirements for data terminal equipment to connect to Packet Switched Public Data Network (PSPDN) using CCITT Recommendation X.25 (1984) interface".
- [20] ETS 300 001: "Attachments to the Public Switched Telephone Network (PSTN); General technical requirements for equipment connected to an analogue subscriber interface in the PSTN (NET 4)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this ETS, the terms given are as defined in ITU-T/CCITT Recommendations T.60 [1], T.61 [2], T.62 [3], T.64 [5], T.70 [6], F.201 [10] and CCITT Recommendations T.63 [4], T.90 [7], T.390 [8] and F.200 [9].

3.2 Abbreviations

For the purposes of this ETS, the abbreviations given are as defined in the CCITT and ITU-T Recommendations referenced in subclause 3.1.

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4 Test limitations (standards.iteh.ai)

The tests shall establish, to an acceptable degree of reliability, that a Teletex system conforms to the relevant Recommendations and Standards. It shall not be possible to test for complete conformance due to:

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- a) the immense number of state event combinations and possible valid and invalid PDU types which would require an unacceptably large amount of computational resources and time;
- b) the possibility that previous actions may affect the results of a particular test;
- c) "transient" states that, although defined in the Recommendations and Standards, may not be externally accessible. Therefore, the relevant test cases defined in ITU-T Recommendation T.64 [5] and denoted by "transient state" may, or may not, be used in the ETSI member countries.

5 Structure of the recommendation

Test procedures applying to transport, session, service, terminal and CSPDN and PSTN lower layers requirements are contained in Annexes A to P.

Annexes Q and R contain proforma which can be used for the test campaign. The PICS in Annex Q can be used to describe the profile of a Teletex system to be tested. The PIXIT in Annex R allows the client to define the parameters required for the test execution.

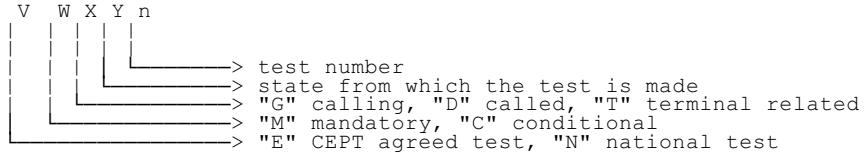
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Annex S defines the relation between the documents used for testing and assists the operator to select the relevant tests.

Annex T gives a structure and contents of the Test Report, which is to be prepared by the test operator.

In general, each of Annexes A to P is sub-divided into separate parts. Each part covers the agreed tests (annexes denoted by "C") and national test (Annexes denoted by "N").

The scheme adopted for the test case numbering, in general, follows the format used in ITU-T Recommendation T.64 [5].



A full description of the test numbering scheme, test types and actions, may be found in ITU-T Recommendation T.64 [5].

All annexes form an integral part of this ETS.

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Annex A (normative): Transport layer ("C")**Additional tests for T.70 ETSI requirements (see ITU-T Recommendation T.70).**

Test No.	Description	
	no additional ETSI requirements	

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