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Terminalska oprema (TE) – Protokoli za nižje plasti skladenjskega sistema Videotex, ki uporablja paketni dostop prek javnega komutiranega telefonskega omrežja (PSTN)

Terminal Equipment (TE); Syntax-based videotex protocol; Lower layer protocols using packet mode access over the Public Switched Telephone Network (PSTN)

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Foreword

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

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1 Scope

This ETS aims to meet the requirements of network operators and equipment manufacturers who are designing equipment to operate with an increased speed on Videotex services over the Public Switched Telephone Network (PSTN).

This ETS has a close relationship to the set of ETSs 300 072 [1] to 300 076 [5] describing the Videotex data syntax.

This ETS specifies how to use the end-to-end protocols defined by ETS 300 223 [6] in the case of syntax-based Videotex lower layer protocols using packet mode access over the PSTN. It also specifies how to use the lower layers protocols defined by ETS 300 080 [7].

This ETS:

-        identifies the parts of ETS 300 223 [6] which apply;

-        defines the applicable protocol pillar;

-        distinguishes the differences which apply to some parameters;

-        distinguishes the lower layers elements which are applicable.

It is applicable to terminals supporting syntax-based Videotex lower layer protocols using packet mode access over the PSTN to be attached to a modem. In this context, a terminal is either a Videotex Terminal (VT), a Videotex Service Centre (VSC), a Videotex Access Point (VAP) or a Videotex Host (VH) whilst a modem is a device providing an interface according to one of the CCITT V. series of Recommendations contained in the Normative references of this ETS (see Clause 2).

This ETS applies only for modems using, in both directions, a synchronous interface to the attached terminal.

For Videotex services using modems operating in "asynchronous interface", the protocols to be used are those already defined by the national Videotex services.

In the case of syntax-based Videotex lower layer protocols using packet mode access over the PSTN, the following principles apply when using ETS 300 223 [6]:

-        the term "S/T reference point" should read "modem interface";

-        the PSTN network should be used instead of the Integrated Services Digital Network (ISDN);

-        in the case of syntax-based Videotex lower layer protocols using packet mode access over the PSTN there is neither D-channel nor B-channel; the communication and signalling data are exchanged using the protocols described in Clause 6 of this ETS;

-        all parts of ETS 300 223 [6] related to the use of "ISDN supplementary services" do not apply for syntax-based Videotex lower layer protocols using packet mode access over the PSTN";

-        a communication channel is equivalent to a Virtual Circuit (VC).

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 of revision. For undated references the latest edition of the publication referred to applies.

[1]   ETS 300 072: "Terminal Equipment (TE); Videotex presentation layer protocol, Videotex presentation layer data syntax".

[2]   ETS 300 073: "Videotex presentation layer data syntax; Geometric Display (CEPT Recommendation T/TE 06-02, Edinburgh 1988)".

[3]   ETS 300 074: "Videotex presentation layer data syntax transparent data (CEPT Recommendation T/TE 06-03, Edinburgh 1988)".

[4]   ETS 300 075: "Terminal Equipment (TE); Videotex processable data".

[5]   ETS 300 076: "Terminal Equipment (TE); Videotex, Terminal Facility Identifier (TFI)".

[6]   ETS 300 223: "Integrated Services Digital Network (ISDN); Syntax-based Videotex; Common end-to-end protocols".

[7]   ETS 300 080: "Integrated Services Digital Network (ISDN); lower layer protocols for telematic terminals".

[8]   ETS 300 177: "Terminal Equipment (TE); Videotex, Photographic syntax".

[9]   ETS 300 149: "Terminal Equipment (TE); Videotex, Audio syntax".

[10]   CCITT Recommendation V.17 (1990): "Recommendation for a 2-wire modem for facsimile applications with rates up to 14 400 bit/s".

[11]   CCITT Recommendation V.22 bis (1988): "2400 bits per second duplex modem using the frequency division technique standardised for use on the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits".

[12]   CCITT Recommendation V.26 bis (1988): "2400/1200 bits per second modem standardised for use in the general switched telephone network".

[13]   CCITT Recommendation V.26 ter (1988): "2400 bits per second duplex modem using the echo cancellation technique standardised for use on the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits".

[14]   CCITT Recommendation V.27 ter (1988): "4800/2400 bits per second modem standardised for use in the general switched telephone network".

[15]   CCITT Recommendation V.29 (1988): "9600 bits per second modem standardised for use on point-to-point 4-wire leased telephone-type circuits".

[16]   CCITT Recommendation V.32 (1988): "A family of 2-wire, duplex modems operating at data signalling rates of up to 9600 bit/s for use on the general switched telephone network and on leased telephone-type circuits".

[17]   CCITT Recommendation V.33 (1988): "14 400 bits per second modem standardised for use on point-to-point 4-wire leased telephone-type circuits".

[18]   CCITT Recommendation V.42 (1988): "Error correcting procedures for DCEs using asynchronous-to-synchronous conversion".

[19]   CCITT Recommendation X.3 (1992): "Packet assembly disassembly facility (PAD) in a public data network".

[20]   CCITT Recommendation X.32 (1988): "Interface between Data Terminal Equipment (DTE) and Data-Circuit-Terminating Equipment (DCE) for terminals operating in the packet mode and accessing a packet switched public data network through a public switched telephone network or an integrated service digital network or a circuit switched public data network".

[21]   CCITT Recommendation X.75 (1988): "Packet-switched signalling system between public networks providing data transmission services".

[22]   ISO 8208 (1990): "Information processing systems - Data communications - X.25 packet level protocol for data terminal equipment".

[23]   CCITT Recommendation T.71 (1988): "Link access protocol balanced (LAPB) extended for half-duplex physical level facility".

[24]   ISO 7776: "Information processing systems - Data communications - Description of the X.25 LAPB - compatible DTE data link procedures".

3   Definitions and abbreviations

The definitions and abbreviations of ETS 300 223 [6] apply. Those related to ISDN are not used in this ETS. In addition, the following definition applies:

Modem: an equipment which supplies the signals conversion in order to allow data transmission on the PSTN.

4   Overview

Clause 4 of ETS 300 223 [6] applies with the exception of subclause 4.5

5   Configurations

Various configurations and topologies may be used, examples of which are given in Annex A (informative). It shall be the responsibility of the Videotex service providers to opt for the appropriate configuration(s) in the definition of the syntax-based Videotex lower layer protocols using packet mode access over the PSTN service.