SLOVENSKI STANDARD
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Terminalska oprema (TE) – Mednarodno medsebojno delovanje terminala in gostitelja pri sistemu Videotex

Terminal Equipment (TE); International Videotex interworking between a terminal and a host

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Foreword

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

This ETS has been produced in the light of:

a) Videotex services being implemented in different countries using different data syntax profiles (as described in ETS 300 072 [1]);

b) the International Radio Consultative Committee (CCIR) expressing the view that terminal equipment compatibility should exist between broadcast Teletext [1)] systems for general reception and public network-based database systems;

c) the right of different countries to use their existing systems;

d) the possible requirement for transcoding and/or conversion to permit interworking between Videotex services in different countries;

e) interworking between Videotex services may be provided by using different types of networks such as the Public Switched Telephone Network (PSTN), Packet Switched Public Data Network (PSPDN), Circuit Switched Public Data Network (CSPDN), Integrated Services Digital Network (ISDN), etc;

f) the need for Videotex interworking protocols to offer a large degree of compatibility with those protocols used in other telematic services.

This ETS provides additional technical information concerning the different configurations of terminal to host interworking as described in ETS 300 105 [3]. It is closely related to ETS 300 072 [1].

1) The term "Teletex" has not yet been definitively adopted by the CCIR.

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1 Scope

This ETS describes, where necessary, detailed information on specific points of the different configurations of Terminal to Host interworking especially in the case of a Videotex Interface Unit (VIU) and a Videotex Service Unit (VSU).

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] ETS 300 072 (1990): "Terminal equipment (TE); Videotex Presentation Layer protocol, Videotex presentation layer data syntax (T/TE 06-01)".

[2] ETS 300 076 (1990): "Terminal Equipment (TE); Videotex : Terminal Facility Identifier (TFI) (T/TE 06-05).

[3] ETS 300 105 (1991): "Terminal equipment (TE); International Videotex interworking".

[4] CEPT Recommendation T/SF 59: "Videotex Service".

[5] CCITT Recommendation F.300 (1988): "Videotex Service".

[6] CCITT Recommendation X.3 (1988): "Packet assembly/disassembly facility (PAD) in a public data network".

[7] CCITT Recommendation X.29 (1988): "Procedures for the exchange of control information and user data between a packet assembly/disassembly (PAD) facility and a packet mode DTE or another PAD".

[8] CCITT Recommendation X.200 (1988): "Reference model of open systems interconnection for CCITT applications".

[9] CCITT Recommendation T.541 (1988): "Operational application profile for videotex interworking".

[10] ISO 639: "Language, country and authority indicatifs".

3 Definitions and abbreviations

The following abbreviations apply:

ASN.1	Abstract Syntax Notation One
CCITT	International Telegraph and Telephone Consultative Committee
CCIR	International Radiocommunication Consultative Committee
CEPT	Conférence Européenne des Postes et Télécommunications
CSPDN	Circuit Switched Public Data Network
ETS	European Telecommunication Standard
ETSI	European Telecommunications Standards Institute
ISDN	Integrated Services Digital Network

PAD	Packet Assembly Disassembly
PDN	Public Data Network
PSPDN	Packet Switched Public Data Network
PSTN	Public Switched Telephone Network
TBC	Time Based Charging
VIU	Videotex Interface Unit
VSU	Videotex Service Unit

4 Access via PSTN or ISDN bearer service

This configuration is described in ETS 300 105 [3], subclause 7.1.

5 Access via PSPDN or ISDN bearer service

This configuration is described in ETS 300 105 [3], subclause 7.2.

6 Access via PSPDN through a PAD

This configuration is described in ETS 300 105 [3], subclause 7.3.

In this configuration it may be necessary to set up the CCITT Recommendation X.3 [6] parameters of the PAD. This can be done either by the terminal or the host.

7 Access via PSPDN through a VIU [2]

This configuration is described in ETS 300 105 [3], subclause 7.4.

It may be necessary to set up the CCITT Recommendation X.3 [6] parameters of the VIU. This can be done either by the terminal or the host.

The data syntax conversion should conform to the one defined in CEPT Recommendation T/SF-59 [4], section 4.4.

The case of CCITT Recommendation X.200 [8] based protocols is for further study.

8 Access via PSPDN through a VSU

This configuration is described in ETS 300 105 [3], subclause 7.5.

When the connection between the VSU and the host is established a basic communication cost becomes active.

8.1 Administrative functions

The commands defined in this ETS have been identified in order to allow the exchange of information for charging and accounting and eventually for identification.

NOTE: The list may not be exhaustive.

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2) Some other networks (CSPDN, ISDN, etc...) may be used between the Terminal and the Host.

The following table describes the command, the direction of the command and whether the command shall be implemented or not in the VSU and/or the host.

Table 1: Terminal to host administrative commands

Command	Direction		Implementation at	
	VSU to Host	Host to VSU	VSU	Host
Charging-Modify-Request		X	M	O
Charging-Modify-Response	X		M	C
Application-Connection-Report		X	M	O
Application-Disconnection-Report		X	M	O
Cost-Limit-Information-Request	X		O	O
Cost-Limit-Information-Response		X	C	C
Item-Over-Limit		X	C1	C2
Item-Over-Limit-Response	X		C1	C2
Identification-Request		X	O	O
Identification-Response	X		O	C
Language-to-Use-Request	X		O	O
Language-to-Use-Response		X	C	O
Data-Syntax-or-Profile-Switching-Request		X	O	O
Data-Syntax-or-Profile-Switching-Response	X		O	C
Error-Message	X	X	M	M

Key to table 1:

M: mandatory
O: optional
C: mandatory when the related request is implemented
C1: mandatory when Cost-Limit-Information-Request is implemented
C2: mandatory when handling of limits is supported.

8.1.1 Charging

The user in country A who accesses, through a VSU, a host machine in country B shall be charged for the session according to a bilateral agreed charging level (initial charging level). The host in country B may adjust the charging level by changing TBC-rate (Time-Based-Charging-rate) and/or Volume-rate. In addition, the host may charge the user for items accessed (frame price) and transactions performed (transaction price).

TBC-rate is specified in terms of period and price per period. Volume-rate is specified in terms of volume size and price per volume. All data sent and received by the VSU on the host side shall be taken into account.

All costs shall be expressed in the currency of the country of the host.

As state tables can be seen as a way of describing the interaction of protocol events, the state table for the charging commands received by the VSU is given in Annex B.