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Terminalska oprema (TE) – Skladenjski Videotex – Splošni protokoli konec-konec

Terminal Equipment (TE); Syntax-based videotex protocol; Common end-to-end protocols

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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).

Annexes C and F to this ETS are normative whereas Annexes A, B, D, E and G are informative.

NOTE: Abstract testing requirements for the Syntax-based Videotex end-to-end protocols are currently being developed by ETSI (see final draft prl-ETS 300 236).

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1 Scope

This ETS specifies both the end-to-end Application layer protocol for the Syntax-based Videotex Service (VS) and the underlying Bearer Independent Service (BIS).

NOTE 1: This ETS does not specify any service aspects of a Syntax-based Videotex Service.

This ETS is applicable to all devices supporting the Bearer Independent Service on the upper side of the Network Layer (NL) [cf. Clause 11]. In the context of this ETS, a device is either a Videotex Terminal (VT), a Videotex Service Centre (VSC), a Videotex Access Point (VAP) or a Videotex Host (VH) [cf. subclause 3.1].

NOTE 2: Depending on the lower layer communication type in use (in particular ISDN DTE/DTE, ISDN DTE/DCE or PSTN), a separate standard is assumed to be applicable for the respective lower layer protocols. For X.25 networks where a significant number of resets are generated by the network or for other underlying lower layers, further study may be needed.

NOTE 3: At the date of publication, ETS 300 079 is an exception to NOTE 2.

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.

- STANDARD PREVIEW**
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- [1] CCITT Recommendation F.300 (1988): "Videotex service".
- [2] CCITT Recommendation T.51 (1988): "Coded character sets for telematic services". [SIST ETS 300 223 E1:2003](https://standards.iteh.ai/catalog/standards/sist/85d685cd-3970-424b-90d6-879072440140/sist-ets-300-223-e1-2003)
- [3] <https://standards.iteh.ai/catalog/standards/sist/85d685cd-3970-424b-90d6-879072440140/sist-ets-300-223-e1-2003>
CCITT Recommendation X.3 (1992): "Packet assembly disassembly facility (PAD) in a public data network".
- [4] CCITT Recommendation X.25 (1980): "Interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) for terminals operating in the packet mode and connected to public data networks by dedicated circuit".
- [5] CCITT Recommendation X.25 (1984): "Interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) for terminals operating in the packet mode and connected to public data networks by dedicated circuit".
- [6] CCITT Recommendation X.29 (1992): "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".
- [7] CCITT Recommendation X.121 (1988): "International numbering plan for public data networks".
- [8] ETS 300 072: "Terminal Equipment (TE); Videotex presentation layer protocol, Videotex presentation layer data syntax".
- [9] ETS 300 073: "Videotex presentation layer data syntax; Geometric Display (CEPT Recommendation T/TE 06-02, Edinburgh 1988)".
- [10] ETS 300 074: "Videotex presentation layer data syntax transparent data (CEPT Recommendation T/TE 06-03, Edinburgh 1988)".

- [11] ETS 300 075: "Terminal Equipment (TE); Videotex processable data".
- [12] ETS 300 076 (1992): "Terminal Equipment (TE); Videotex, Terminal Facility Identifier (TFI)".
- [13] ETS 300 149: "Terminal Equipment (TE); Videotex, Audio syntax".
- [14] ETS 300 177: "Terminal Equipment (TE); Videotex, Photographic syntax".
- [15] CCITT Recommendation X.200: "Reference model of Open Systems Interconnection for CCITT applications".
- [16] ISO 7498: "Information processing systems - Open Systems Interconnection - Basic Reference Model".
- [17] ISO/IEC 8208 (1990): "Information technology - Data communications - X.25 Packet Layer Protocol for Data Terminal Equipment".
- [18] ISO/IEC 8208 (1990) Addendum 3 (1991): "Information processing systems - Data communications - X.25 Packet Layer Protocol for Data Terminal Equipment - Addendum 3: Conformance requirements".
- [19] ISO/TR 8509: "Information processing systems - Open Systems Interconnection - Service conventions".

3 Definitions and abbreviations

3.1 Definitions

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For the purposes of this ETS, the following definitions apply.

Access Function: the functional entity which gives access to the Videotex Service. This entity is an integral part of the Videotex Service.

Access Network: the network which provides the link between the Terminal Function and the Access Function.

Application layer: see OSI Reference Model, CCITT Recommendation X.200 [15]/ISO 7498 [16].

Audio data: generic term for data which can be made audible (e.g., wave form encoded, phonetically encoded).

Bearer Independent Service Access Point: point in an end system where the user of the Bearer Independent Service (BIS) accesses the service.

Called BIS user: a BIS user with whom a calling BIS user wishes to establish a Network Connection (NC).

Calling BIS user: a BIS user that initiates a NC establishment request.

Confirm: see Service Conventions standard, ISO/TR 8509 [19].

Data Circuit-terminating Equipment (DCE): see ISO/IEC 8208 [17] and CCITT Recommendation X.25 [5].

Data Terminal Equipment (DTE): see ISO/IEC 8208 [17] and CCITT Recommendation X.25 [5].

Distributed Videotex Application: a Videotex Application which makes use of more than one Videotex Host (VH).

Host Access Network (HAN): the network which provides the link between the Access Function and the Host Function(s). It is an integral part of the Videotex Service and may be void.

Host Function: the abstraction of the Videotex Applications available in a particular Videotex Service.

In-band: all communication aspects related to CCITT Recommendation X.29 [6] (including Telematic Commands) based procedures.

Indication: see Service Conventions standard, ISO/TR 8509 [19].

Logical Channel: see ISO/IEC 8208 [17] and CCITT Recommendation X.25 [5].

Multi-media communication: term used to indicate that both pictorial and audio data are exchanged.

Network Connection (NC): see OSI Reference Model, CCITT Recommendation X.200 [15]/ISO 7498 [16].

Network Layer (NL): see OSI Reference Model, CCITT Recommendation X.200 [15]/ISO 7498 [16].

Network Service: see OSI Reference Model, CCITT Recommendation X.200 [15]/ISO 7498 [16].

Out-Band: all communication aspects related to procedures not being based on CCITT Recommendation X.29 [6] (including Telematic Commands), e.g. in case of an ISDN the use of the D-Channel for B-Channel establishment.

Packet Layer: see ISO/IEC 8208 [17] and CCITT Recommendation X.25 [5].

Pictorial data: generic term for data which can be displayed (e.g. alphamosaic, geometric, photographic).

Primitive: see Service Conventions standard, ISO/TR 8509 [19].

Request: see Service Conventions standard, ISO/TR 8509 [19].

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Response: see Service Conventions standard, ISO/TR 8509 [19].

Telematic Command (TC): in the scope of this ETS, a Telematic Command is a specific service element which is carried in a complete packet sequence of CCITT Recommendation X.25 Packet Layer Protocol (PLP) DATA packets with the Q-bit set to 1. The first octet in the User Data field of the first packet of the complete packet sequence carries a value which is reserved for Videotex (cf. draft CCITT Recommendation X.29 (1992), "Telematic service message, Videotex").

Terminal Function: the abstraction of a functional entity which acts as a Videotex Terminal (VT).

Videotex Access Point (VAP): see CCITT Recommendation F.300 [1].

Videotex Application: see CCITT Recommendation F.300 [1].

Videotex External Host: see CCITT Recommendation F.300 [1].

Videotex Host (VH): this term describes a computer which offers one or more applications and/or facilities. It can be represented through a Videotex Host Computer, an External Videotex Host or a Videotex Service Centre (VSC).

Videotex Host Computer: see CCITT Recommendation F.300 [1].

Videotex Service (VS): see CCITT Recommendation F.300 [1].