



SLOVENSKI STANDARD SIST I-ETS 300 442 E1:2003

01-december-2003

**Digitalno omrežje z integriranimi storitvami (ISDN) – Daljinske storitve:
videotelefonija – Terminalske karakteristike**

Integrated Services Digital Network (ISDN); Videotelephony teleservice; Terminal characteristics

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Ta slovenski standard je istoveten z: **SIST I-ETS 300 442 E1:2003** **I-ETS 300 442 Edition 1**
<https://standards.iteh.ai/catalog/standards/sist/49681090-4853-4ebf-b2b5-59fb5c0e2e95/sist-i-ets-300-442-e1-2003>

ICS:

33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
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**INTERIM
EUROPEAN
TELECOMMUNICATION
STANDARD**

I-ETS 300 442

December 1995

Source: ETSI TC-TE

Reference: DI/TE-04112

ICS: 33.080

Key words: ISDN, videotelephony teleservice, terminal characteristics

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Integrated Services Digital Network (ISDN);
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Videotelephony teleservice;
Terminal characteristics

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Foreword

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it can be converted into an ETS, have its life extended for a further two years, be replaced by a new version, or be withdrawn.

Proposed announcement date	
Date of adoption of this I-ETS:	17 November 1995
Date of latest announcement of this I-ETS (doa):	31 March 1996

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1 Scope

This I-ETS specifies the technical characteristics (electrical, functional, visual and acoustic) for videotelephony terminals to be used at the basic access of the coincident S and T interface of the Integrated Services Digital Network (ISDN). The characteristics of this I-ETS are meant to specify characteristics that are outside the scope of attachment standards or specifications, and outside the scope of standards specifying the end-to-end characteristics for videotelephony terminals. However, this I-ETS is not intended to be used for type approval purposes or other mandatory requirements.

This I-ETS is applicable to videotelephony terminals as well as to the videotelephony functions of multimedia or multiservice terminals.

This I-ETS is applicable to terminal equipment supporting the videotelephony teleservice in the ISDN as defined in ETS 300 264 [1].

The characteristics specified in this I-ETS will cover a number of functions or facilities that can be combined to form a particular terminal.

For multimedia or multiservice terminals, other requirements or standards may apply in addition to this I-ETS.

The requirements of this I-ETS do not apply to videoconference terminals. Requirements to videoconference terminals are specified in other standards.

2 Normative references

This I-ETS incorporates by dated and 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 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 300 264 (1994): "Integrated Services Digital Network (ISDN); Videotelephony teleservice, Service description".
<https://standards.itec.int/catalogue/standards/sist/300-442-e1-2003/391b5c0e2e95/sist-ets-300-442-e1-2003>
- [2] CCITT Recommendation G.701 (1988): "Vocabulary of digital transmission and multiplexing, and pulse code modulation (PCM) terms".
- [3] CCITT Recommendation I.112 (1988): "Vocabulary of terms for ISDNs".
- [4] CCITT Recommendation I.230 (1988): "Definition of bearer service categories".
- [5] CCITT Recommendation I.240 (1988): "Definition of teleservices".
- [6] CCITT Recommendation P.10 (1988): "Vocabulary of terms on telephone transmission quality and telephone sets".
- [7] ETS 300 111 (1992): "Integrated Services Digital Network (ISDN); Telephony 3,1 kHz teleservice, Service description".
- [8] ETS 300 263 (1994): "Integrated Services Digital Network (ISDN); Telephony 7 kHz teleservice, Service description".
- [9] ETS 300 012 (1992): "Integrated Services Digital Network (ISDN); Basic user-network interface, Layer 1 specification and test principles".
- [10] ETS 300 145 (1994): "Integrated Services Digital Network (ISDN); Audiovisual services, Videotelephone systems and terminal equipment operating on one or two 64 kbit/s channels".
- [11] ETS 300 102-1 (1990): "Integrated Services Digital Network (ISDN); User-network interface layer 3, Specification for basic call control".

- [12] ETS 300 267-1 (1994): "Integrated Services Digital Network (ISDN); Telephony 7 kHz and videotelephony teleservices, Digital Subscriber Signalling System No. one (DSS1) protocol, Part 1: Protocol specification".
- [13] I-ETS 300 245-1: "Integrated Services Digital Network (ISDN); Technical characteristics of telephony terminals, Part 1: General".
- [14] CCITT Recommendation G.722 (1988): "7 kHz audio coding within 64 kbit/s".
- [15] I-ETS 300 322 (1995): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. 1 (DSS 1); Abstract Test Suite (ATS) specification for signalling network layer protocol for circuit-mode basic call control (user)".
- [16] CCITT Recommendation G.711 (1988): "Pulse code modulation (PCM) of voice frequencies".
- [17] ETS 300 182-1 (1993): "Integrated Services Digital Network (ISDN); Advice of Charge (AOC) supplementary service, Digital Subscriber Signalling System No. one (DSS1) protocol, Part 1: Protocol specification".
- [18] I-ETS 300 245-7 (1995): "Integrated Services Digital Network (ISDN); Technical characteristics of telephony terminals; Part 7: Locally generated information tones".
- [19] ETS 300 144 (1994): "Integrated Services Digital Network (ISDN); Audiovisual services, Frame structure for a 64 kbit/s to 1 920 kbit/s channel and associated syntax for inband signalling".
- [20] ETS 300 143 (1994): "Integrated Services Digital Network (ISDN); Audiovisual services, Inband signalling procedures for audiovisual terminals using digital channels up to 2 048 kbit/s".
- [21] I-ETS 300 302-1 (1994): "Integrated Services Digital Network (ISDN); Videotelephony teleservice, Part 1: Electroacoustic characteristics for handset telephony function when using Pulse Code Modulation (PCM) encoding".
- [22] CCITT Recommendation G.728 (1992): "Coding of speech at 16 kbit/s using low-delay code excited linear prediction".
- [23] ITU-T Recommendation H.261 (1993): "Video codec for audiovisual services at p x 64 kbit/s".
- [24] ITU-T Recommendation T.122 (1993): "Multipoint communication service for audiographics and audiovisual conferencing service definition".
- [25] ITU-T Recommendation T.123 (1994): "Protocol stacks for audiographic and audiovisual teleconference applications".
- [26] ITU-T Recommendation T.125 (1994): "Multipoint communication service protocol specification".
- [27] IEC Publication 651: "Sound level meters".
- [28] IEC Publication 225: "Octave, half-octave and third-octave band filters intended for the analysis of sound and vibrations".
- [29] ETS 300 085 (1990): "Integrated Services Digital Network (ISDN); 3,1 Hz telephony teleservice, Attachment requirements for handset terminals (Candidate NET 33)".

3 Definitions

For the purposes of this I-ETS, the relevant definitions in CCITT Recommendations G.701 [2], I.112 [3], I.230 [4], I.240 [5] and P.10 [6] apply along with the following:

handsfree terminal: A terminal using a loudspeaker associated with an amplifier as a telephony receiver and which can be used without a handset. Defined in CCITT Recommendation P.10 [6].

loudspeaking terminal: A handset terminal using a loudspeaker associated with an amplifier as a telephony receiver. Defined in CCITT Recommendation P.10 [6].

multimedia terminal: A terminal that simultaneously supports two or more media.

multiservice terminal: A terminal that supports two or more teleservices.

restricted power condition: See ETS 300 012 [9]. The condition is indicated by the reversed polarity of the phantom voltage at the S or coincident S and T reference point.

NOTE 1: For some networks the restricted power condition may be the normal operating mode.

telephony 3,1 kHz teleservice: A description of the telephony 3,1 kHz teleservice is given in ETS 300 111 [7], clause 5.

telephony 7 kHz teleservice: A description of the telephony 7 kHz teleservice is given in ETS 300 263 [8], clause 5.

videoconference terminal: A terminal that supports the videoconference teleservice.

NOTE 2: The videoconference teleservice is described in draft prETS 300 678 ("Integrated Services Digital Network (ISDN); Videoconference teleservice, Service description").

videotelephony teleservice: A description of the videotelephony teleservice is given in ETS 300 264 [1], clause 5.

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4 Abbreviations

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

AOC-D	Advice of Charge; charging information During the call
AOC-E	Advice of Charge; charging information at the End of the call
AOC-S	Advice of Charge; charging information at call Set-up time
CD	Call Deflection
CFB	Call Forwarding Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CH	Call Hold
CONF	Conference
CTR	Common Technical Regulation
DTMF	Dual Tone Multi Frequency
ECT	Explicit Call Transfer
ISDN	Integrated Services Digital Network
MLP	Multi Layer Protocol
MMC	Meet Me Conference
MSN	Multiple Subscriber Number
SUB	Subaddressing
TP	Terminal Portability
3PTY	Three Party
UDI-TA	Unrestricted Digital Information with Tones and Announcement