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SIST I-ETS 300 302-2 E1:2003

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Digitalno omreźje z integriranimi storitvami (ISDN) ï Daljinske storitve: videotelefonija ï 2. del: Elektroakustiļ ne karakteristike zvoļ niġkih in prostoroļ nih terminalov s pasovno ġirino 3,1 kHz

Integrated Services Digital Network (ISDN); Videotelephony teleservice; Part 2: Electroacoustic characteristics for 3,1 kHz bandwidth loudspeaking and handsfree terminals

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Integrated Services Digital Network (ISDN); Videotelephony teleservice; Part 2: Electroacoustic characteristics for 3,1 kHz bandwith loudspeaking and handsfree terminals

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Foreword

Part 2 of this Interim European Telecommunication Standard (I-ETS) was 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 European Telecommunication Standard (ETS), have it's life extended for a further two years, be replaced by a new version or, be withdrawn.

This is the second Part of an I-ETS which is currently intended to comprise four Parts.

Part 1: Electroacoustic characteristics for handset telephony function when using Pulse Code Modulation encoding.

Part 2: Electroacoustic characteristics for 3,1 kHz bandwidth loudspeaking and handsfree terminals.

Part 3: Electroacoustic characteristics for 7 kHz bandwidth handset terminals.

Part 4: Electroacoustic characteristics for 7 kHz bandwidth loudspeaking and handsfree terminals.

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1 Scope

This I-ETS specifies the electroacoustic characteristics for 3,1 kHz bandwidth loudspeaking and handsfree functions implemented in videotelephony terminals. These terminals are intended for use in the videotelephony teleservice and connected to the basic access of the coincident S and T reference point of the Integrated Services Digital Network (ISDN) using either Pulse Code Modulation (PCM) encoding according to CCITT Recommendation G.711 [1], A-law or low delay code-excited linear prediction (LD-CELP) coding at 16 kbit/s as specified in CCITT Recommendation G.728 [2].

The videotelephony teleservice in the ISDN is defined in ETS 300 264.

The requirements of clauses 4 and 5 are applicable to all videotelephonic terminals and the requirements of clause 6 is applicable when the optional LD-CELP encoding is implemented.

The requirements of this I-ETS specify those characteristics which deviate from those an ISDN 3,1 kHz telephony terminal needs to meet due to conditions which are special for videotelephony applications (e.g. delay, measurement position). The corresponding requirements to an ISDN 3,1 kHz telephony loudspeaking and handsfree terminal can be found in I-ETS 300 245-3 [3] and in I-ETS 300 245-8 for LD-CELP coding.

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.

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[1] CCITT Recommendation G.711 (1988): "Pulse code modulation (PCM) of voice frequencies".

[2] CCITT Recommendation G.728 (1992): "Coding of speech at 16 kbit/s using low delay code excited linear prediction".

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[3] I-ETS 300 245-3 (1995): "Integrated Services Digital Network (ISDN); Technical characteristics of telephony terminals; Part 3: Pulse Code Modulation (PCM) A-law, loudspeaking and handsfree telephony".

[4] CCITT Recommendation P.10 (1988): "Vocabulary of terms on telephone transmission quality and telephone sets".

[5] CCITT Recommendation G.701 (1988): "Vocabulary of digital transmission and multiplexing, and pulse code modulation (PCM) terms".

[6] ETS 300 111 (1992): "Integrated Services Digital Network (ISDN); Telephony 3,1 kHz teleservice, Service description".

[7] ETS 300 145: "Integrated Services Digital Network (ISDN); Audiovisual teleservices; Videotelephone systems and terminal equipment operating on one or two 64 kbit/s channels".

[8] CCITT Recommendation I.112 (1988): "Vocabulary of terms for ISDNs".

[9] ETS 300 144: "Integrated Services Digital Network (ISDN); Audiovisual teleservices; Frame structure for a 64 kbit/s to 1 920 kbit/s channel and associated syntax for inband signalling".

[10] CCITT Recommendation G.101 (1988): "The transmission plan".

[11] I-ETS 300 302-1: "Integrated Services Digital Network (ISDN); Videotelephony teleservice, Part 1: Electroacoustic characteristics for telephony function when using Pulse Code Modulation (PCM) encoding".