SLOVENSKI STANDARD
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Digitalno omreģje z integriranimi storitvami (ISDN) ï Daljinska storitev telefonije na 3,1 kHz ï Priklju ļ itvene zahteve za terminale v pogovorki

Integrated Services Digital Network (ISDN); 3,1 kHz telephony teleservice; Attachment requirements for handset terminals (Candidate NET 33)

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Foreword

This European Telecommunication Standard (ETS) was produced by the Terminal Equipment (TE) Technical Committee of the European Telecommunications Standards Institute (ETSI) and was adopted in November 1990.

Annex A to this ETS is normative but Annex A, Appendix A and Annex B are informative.

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1 Scope

This standard specifies the technical characteristics (electrical, logical and acoustic) for terminal equipment for the 3,1 kHz telephony teleservice which can be connected to an ISDN basic access.

The requirements of this standard are additional to those of the standards for connection to the ISDN basic access, and of any other standards to which the terminal equipment is subject.

This standard is applicable to simple telephony terminals as well as to the telephony function of multi-function or multi-service terminals.

This standard is applicable to terminal equipment of the functional group defined as Terminal Equipment Type I (TEI) in CCITT Recommendation I.411 [10] which supports the 3,1 kHz telephony teleservice.

This standard applies to apparatus for household, office and similar general indoor use.The terminal includes all the functions necessary to provide real-time 2-way speech conversation. Where a function is indicated as optional, it need not be provided, but where such a function is provided, the terminal shall conform to the requirements and tests specified in this standard.

This standard is not applicable to:

a) terminal equipment specially designed for the disabled (e.g., with amplification of received speech as an aid for the hard-of-hearing);

b) terminal equipment using a radio link (e.g., cordless telephones);

c) terminal equipment for hostile environments.

NOTE 1: This standard is applicable only to items of terminal equipment with an integral user-network interface for ISDN basic access. Where an adaptor is used, other standards may apply.

NOTE 2: In some countries, an interim ISDN service corresponding to, but not wholly compatible with, the ISDN basic access standards may be provided. For connection to such services, this standard is not applicable.

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] NET 3 part 1 : "Approval Requirements for Terminal Equipment to Integrated Services Digital Network (ISDN) using ISDN Basic Access. Layers 1 and 2 Aspects." (First edition : 1988)

Part 2 : "Approval Requirements for Terminal Equipment to Integrated Services Digital Network (ISDN) using ISDN Basic Access. Layer 3 Aspects."

[2] Draft prETS 300 012, "Integrated Services Digital Network (ISDN) ; Basic user-network interface, Layer 1 specification and test principles."

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

[4] CCITT Recommendation G.122 (1988), "Influence of national systems on stability, talker echo, and listener echo in international connections."

[5] CCITT Recommendation G.223 (1988), "Assumptions for the calculations of noise on hypothetical reference circuits for telephony."

[6] CCITT Recommendation G.701 (1988), "Vocabulary of digital transmission and multiplexing, and Pulse Code Modulation (PCM) terms."

[7] CCITT Recommendation G.711 (1988), "Pulse Code Modulation (PCM) of voice frequencies."

[8] CCITT Recommendation G.714 (1988), "Separate performance characteristics for the send and receive sides of PCM channels applicable to 4-wire voice frequency interfaces."

[9] CCITT Draft Recommendation I.241 (1988), "Teleservices supported by an ISDN."

[10] CCITT Recommendation I.411 (1988) "ISDN user-network interfaces - reference configurations."

[11] CCITT Recommendation O.131 (1988), "Specification for a quantizing distortion measuring apparatus using a pseudo-random noise stimulus."

[12] CCITT Recommendation O.132 (1988), "Specification for a quantizing distortion measuring apparatus using a sinusoidal test signal."

[13] CCITT Recommendation O.133 (1988), "Specification for equipment to measure the performance of PCM encoders and decoders."

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

[15] CCITT Recommendation P.51 (1988), "Artificial mouths and artificial ears."

[16] CCITT Recommendation P.64 (1988), "Determination of sensitivity/frequency characteristics of local telephone systems to permit calculation of their loudness ratings."

[17] CCITT Recommendation P.76 (1988), "Determination of loudness ratings; fundamental principles."

[18] CCITT Recommendation P.79 (1988), "Calculation of loudness ratings."

[19] CCITT Blue Book (1988), Volume V, Supplement 13, "Noise spectra."

[20] IEC 318, "An artificial ear, of the wide band type, for the calibration of earphones used in audiometry."

[21] IEC 651, "Sound level meters."

[22] ISO 3 - 1973, "Preferred numbers - series of preferred numbers."

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this ETS, the relevant definitions and abbreviations in CCITT Recommendations P.10 [14] and G.701 [6] shall apply.

Acoustic reference level (ARL): the acoustic level which gives -10 dBmO at the digital interface.

Designated terminal: refers to the terminal which is permitted to draw power from power source 1 under restricted power conditions as specified in draft prETS 300 012 [2].

Restricted Power Condition: the condition where the terminal has no other power source available than power source 1 supplying the restricted power condition as specified in draft prETS 300 012 [2].

3,1 kHz telephony teleservice: a definition for telephony service is to be found in CCITT Recommendation I.241 [9]. This definition corresponds to the term 3,1 kHz telephony teleservice used in this standard.

NOTE: Work is currently being undertaken by ETSI to produce a stage 1 description of the 3.1 kHz telephony teleservice in the ISDN.

Terminal coupling loss (TCL): the frequency dependent coupling loss between the receiving port and the sending port of a terminal due to :

- acoustical coupling at the user interface
- electrical coupling due to crosstalk in the handset cord or within the electrical circuits
- seismic coupling through the mechanical parts of the terminal

NOTE 1: The receiving port and the sending port of a digital voice terminal is a 0 dBr point.

NOTE 2: The coupling at the user interface depends on the conditions of use.

Weighted terminal coupling loss (TCLw) : the weighted TERMINAL COUPLING LOSS using the weighting of CCITT Recommendation G. 122 [4].

3.2 Abbreviations

ARL	Acoustic Reference Level
BC	Bearer Capability
ERP	Ear Reference Point
HLC	High Layer Compatibility
ISDN	Integrated Services Digital Network
LLC	Low Layer Compatibility
L_{meST}	Sidetone path loss
LRGP	Loudness Rating Guard-ring Position
MFPB	Multi Frequency Push Button
MRP	Mouth Reference Point
TCL	Terminal Coupling Loss
TCLw	Weighted Terminal Coupling Loss
RLR	Receiving Loudness Ratings
SLR	Sending Loudness Ratings