



# SLOVENSKI STANDARD SIST ETS 300 263 E1:2003

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## Digitalno omrežje z integriranimi storitvami (ISDN) – Daljinske storitve: telefonija 7 kHz – Opis storitve

Integrated Services Digital Network (ISDN); Telephony 7 kHz teleservice; Service description

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## Foreword

This European Telecommunication Standard (ETS) has been produced by the Network Aspects (NA) Technical Committee of the European Telecommunications Standards Institute (ETSI).

In accordance with CCITT Recommendation I.130 [1], the following three level structure is used to describe the supplementary telecommunications services as provided by European public telecommunications operators under the pan-European Integrated Services Digital Network (ISDN):

- Stage 1: is an overall service description, from the user's standpoint;
- Stage 2: identifies the functional capabilities and information flows needed to support the service described in stage 1; and
- Stage 3: defines the signalling system protocols and switching functions needed to implement the service described in stage 1.

This ETS details the stage 1 aspects (overall service description) for the telephony 7 kHz teleservice. The stage 2 and stage 3 aspects are detailed in ETS 300 265 (1993) and ETS 300 267 (1993), respectively.

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## 1 Scope

This standard defines the stage one of the telephony 7 kHz teleservice for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunications operators. Stage one is an overall service description from the user's point of view (see CCITT Recommendation I.130 [1]), but does not deal with the details of the human interface itself.

This standard defines the interworking requirements of private ISDNs with the public ISDN.

In addition, this standard specifies the base functionality where the service is provided to the user via a private ISDN.

This standard does not specify the additional requirements where the service is provided to the user via a telecommunications network that is not an ISDN but does include interworking requirements of other networks with the public ISDN.

Charging principles are outside the scope of this standard.

The values of the general attributes are outside the scope of this standard.

The telephony 7 kHz teleservice is a real-time teleservice in which speech (7 kHz or 3,1 kHz bandwidth) can be interchanged using one circuit-mode 64 kbit/s connection.

This standard is applicable to the stage two and stage three standards for the ISDN telephony 7 kHz teleservice. The terms "stage two" and "stage three" are also defined in CCITT Recommendation I.130 [1]. Where the text indicates the status of a requirement (i.e. as strict command or prohibition, as authorisation leaving freedom, or as a capability or possibility), this shall be reflected in the text of the relevant stage two and stage three standards.

Furthermore, conformance to this standard is met by conforming to the stage three standard with the field of application appropriate to the equipment being implemented and by conforming to the standards on the end-to-end characteristics with the field of application appropriate to the equipment being implemented. Therefore, no method of testing is provided for this standard.

## 2 Normative references

This standard 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 standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] CCITT Recommendation I.130 (1988): "Method for the characterisation of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [2] CCITT Recommendation I.112 (1988): "Vocabulary of terms for ISDNs".
- [3] CCITT Recommendation I.210 (1988): "Principles of telecommunication services supported by an ISDN and the means to describe them".
- [4] CCITT Recommendation G.711 (1988): "Pulse code modulation (PCM) of voice frequencies".
- [5] CCITT Recommendation G.722 (1988): "7 kHz audio-coding within 64 kbit/s".
- [6] CCITT Recommendation I.220 (1988): "Common dynamic description of basic telecommunication services".
- [7] CCITT Recommendation I.221 (1988): "Common specific characteristics of services".

- [8] prETS 300 143: "Integrated Services Digital Network (ISDN) and other digital communications networks; Audiovisual teleservices System for establishing communication between audiovisual terminals using digital channels up to 2048 kbit/s".
- [9] prETS 300 144: "Integrated Services Digital Network (ISDN) and other digital telecommunications networks; Audiovisual teleservices Frame structure for a 64 to 1920 kbit/s channels in audiovisual service".
- [10] ETS 300 111 (1992): "Integrated Services Digital Network (ISDN); Telephony 3,1 kHz teleservice Service description".
- [11] CCITT Recommendation I.140 (1988): "Attribute technique for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [12] CCITT Recommendation E.164 (1991): "Numbering plan for the ISDN era".
- [13] prETS 300 281: "Integrated Services Digital Network (ISDN); Telephony 7 kHz teleservice Terminal requirements necessary for end-to-end compatibility".

### 3 Definitions

For the purposes of this standard, the following definitions apply:

**Integrated Services Digital Network (ISDN):** see CCITT Recommendation I.112 [2], § 2.3, definition 308.

**ISDN number:** see CCITT Recommendation E.164 [12].

**Service; telecommunications service:** see CCITT Recommendation I.112 [2], § 2.2, definition 201.

**Supplementary service:** see CCITT Recommendation I.210 [3], § 2.4.

**Teleservice:** see CCITT Recommendation I.112 [2], § 2.2, definition 203.

**7 kHz terminal:** a terminal that supports the telephony 7 kHz teleservice.

**3,1 kHz terminal:** a terminal that supports only the telephony 3,1 kHz teleservice.

**Videotelephone terminal:** a terminal that supports the videotelephony teleservice.

**Fall-back:** the mechanism whereby a request for the telephony 7 kHz teleservice, which includes an indication that an alternative teleservice is acceptable, results in a call using the alternative teleservice. In the case of the telephony 7 kHz teleservice, the alternative is the telephony 3,1 kHz teleservice.

**Network determined user busy:** see CCITT Recommendation I.221 [7], § 3.1.4.

**User determined user busy:** see CCITT Recommendation I.221 [7], § 3.1.4.

**Retention timer:** this timer specifies the amount of time that the network retains all of the call information supplied by the calling user when the call encounters busy or is terminated. Implementation of this timer is a network option. The value of this timer shall be greater than 15 seconds.

## 4 Symbols and abbreviations

For the purposes of this standard, the following abbreviations apply:

ISDN	Integrated Services Digital Network
PSTN	Public Switched Telephone Network

## 5 Description

The telephony 7 kHz teleservice is a real-time teleservice in which speech (7 kHz or 3,1 kHz bandwidth) can be interchanged using one circuit-mode 64 kbit/s connection. The audio bandwidth conforms to CCITT Recommendations G.722 [5] or G.711 [4].

User information shall be transferred over the B-channel, signalling shall be provided over the D-channel.

The network provides tones and/or announcements to support this teleservice. Tones and/or announcements can be used to indicate the progress (or lack of progress) of a call. The application and meaning of the tones and announcements is a national matter and outside the scope of this standard.

The telephony 7 kHz teleservice shall allow communication between:

- two users in a point-to-point configuration; and
- as a service provider option, three or more users in a multipoint configuration as invoked by some supplementary services.

## 6 Procedures

### 6.1 Provision and withdrawal

The telephony 7 kHz teleservice shall either be provided after prior arrangement with the service provider, or shall be generally available.

NOTE: As a service provider option, the telephony 7 kHz teleservice can be offered with several subscription options which apply separately to each ISDN number, all ISDN numbers, or a group of ISDN numbers on the interface. For each subscription option, only one value can be selected.

Subscription options for the interface are summarised in table 1.

**Table 1: Subscription options for the interface**

Subscription option	Value
Maximum number of information channels available	m, where m is not greater than the number of information channels on the interface
Maximum number of total calls present	n, where n is not greater than the number of information channels on the interface

The user can be identified by an ISDN number, or a group of ISDN numbers, or globally for all ISDN numbers on the interface.