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SIST ETS 300 265:1997

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Digitalno omrežje z integriranimi storitvami (ISDN) - Daljinska storitev: 7 kHz telefonija - Funkcijske zmožnosti in informacijski tokovi

Integrated Services Digital Network (ISDN); Telephony 7 kHz teleservice; Functional capabilities and information flows

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ICS:

33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
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Foreword

This European Telecommunication Standard (ETS) has been prepared by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

In accordance with CCITT Recommendation I.130, the following three level structure is used to describe the telecommunication 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 2 aspects (functional capabilities and information flows) needed to support the telephony 7 kHz teleservice. The stage 1 and stage 3 aspects are detailed in ETS 300 263 (1994) and ETS 300 267-1 (1994), respectively.

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1 Scope

This ETS defines the stage two of the telephony 7 kHz teleservice for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunications operators. The stage two description identifies the functional capabilities and the information flows needed to support the service description. The stage two description also identifies user operations not directly associated with a call (see CCITT Recommendation I.130 [2]).

This ETS is specified according to the methodology specified in CCITT Recommendation Q.65 [3].

In addition this ETS does not specify the requirements where the service is provided to the user via a private ISDN. This ETS does not specify the requirements for the allocation of defined functional entities within a private ISDN; it does, however, specify which functional entities may be allocated to a private ISDN.

This ETS does not specify the additional requirements where the service is provided to a user via a telecommunications network that is not an ISDN.

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

This ETS is applicable to the stage three standards for the ISDN telephony 7 kHz teleservice. The term "stage three" is also defined in CCITT Recommendation I.130 [2]. Where the text indicates the status of a requirement, i.e. as a strict command or prohibition, as authorisation leaving freedom, as a capability or possibility, this shall be reflected in the relevant stage three standards.

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

2 Normative references [SIST ETS 300 265:1997](#)

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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] CCITT Recommendation I.112 (1988): "Vocabulary of terms for ISDNs".
- [2] CCITT Recommendation I.130 (1988): "Method for the characterisation of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [3] CCITT Recommendation Q.65 (1988): "Stage 2 of the method for the characterisation of services supported by an ISDN".
- [4] CCITT Recommendation Q.71 (1988): "ISDN 64 kbit/s circuit mode switched bearer services".
- [5] CCITT Recommendation Z.100 (1988): "Functional Specification and Description Language (SDL)".
- [6] ETS 300 144: "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" (equivalent to ITU-T Recommendation H.221).

3 Definitions

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

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

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

Connection: see CCITT Recommendation I.112 [1], § 2.3, definition 309.

Integrated Services Digital Network (ISDN): see CCITT Recommendation I.112 [1], § 2.3, definition 308.

Service; telecommunications service: see CCITT Recommendation I.112 [1], § 2.2, definition 201.

Teleservice: see CCITT Recommendation I.112 [1], § 2.2, definition 203.

4 Symbols and abbreviations

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

CC	Call Control
CCA	Call Control Agent
FE	Functional Entity
FEA	Functional Entity Action
SDL	Specification and Description Language

5 Description

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The telephony 7 kHz teleservice enables the user to communicate with high quality speech or by interchanging sounds with higher quality than that provided by the telephony 3,1 kHz teleservice. The telephony 7 kHz teleservice provides speech communication with a frequency range from 50 to 7 000 Hz using one circuit-mode 64 kbit/s connection. The digital signal over the connection follows the internationally agreed encoding laws for high quality speech. Tones and announcements are provided by the network.

The telephony 3,1 kHz teleservice may be charged at a cheaper rate and users shall have the option of accessing either service. The calling user can indicate that fallback to the telephony 3,1 kHz teleservice is not allowed, in which case the call shall be offered to the called user at 7 kHz terminals. If the calling user has indicated that fallback is allowed the network shall offer the call to the called user at all 7 kHz terminals and 3,1 kHz terminals. The called user can accept the call at any terminal where the call is offered.

6 Derivation of the functional model

6.1 Functional model description

The functional model for the telephony 7 kHz teleservice is shown in figure 1.

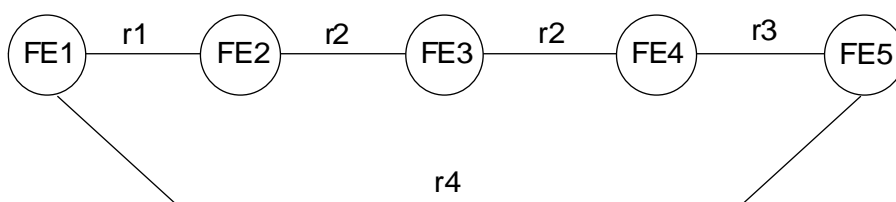


Figure 1: Functional model

6.2 Description of functional entities

The Functional Entities (FEs) required by the telephony 7 kHz teleservice are those of basic call and are as follows:

FE1:	Originating Call Control Agent (CCA);
FE2:	Call Control (CC);
FE3:	Call control;
FE4:	Call control;
FE5:	Destination call control agent.

7 Information flows

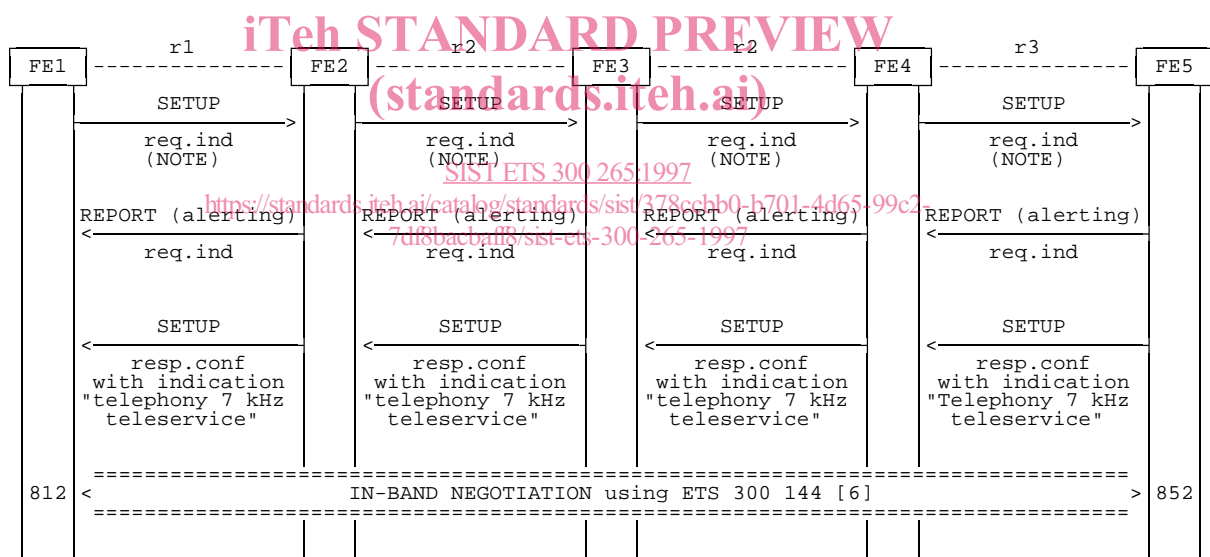
The following information flow diagrams contain only the information flows modified for the telephony 7 kHz teleservice. For the complete information flow diagrams, see CCITT Recommendation Q.71 [4]. Only the additional functional entity actions are mentioned in the flow diagrams.

7.1 Information flow diagrams

The information flows are shown in figures 2 and 3. The following information flows are depicted:

Figure 2: 7 kHz terminal to 7 kHz terminal call setup;

Figure 3: 7 kHz terminal to 3,1 kHz terminal call setup (the calling 7 kHz terminal allows fallback to the telephony 3,1 kHz teleservice).



NOTE: Call according to the telephony 7 kHz teleservice: compatibility information indicates telephony 7 kHz teleservice with fallback allowed to telephony 3,1 kHz teleservice.

Figure 2: 7 kHz terminal to 7 kHz terminal call setup