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

Integrated Services Digital Network (ISDN); Videotelephony 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 produced 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 videotelephony teleservice. The stage 1 and stage 3 aspects are detailed in ETS 300 264 (1994) and ETS 300 267-1 (1994), respectively.

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1 Scope

This ETS defines the stage two for the videotelephony teleservice of 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 [4].

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, define which functional entities may be allocated to a private ISDN.

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

The videotelephony teleservice is a realtime, audiovisual teleservice in which speech and moving pictures are interchanged by means of one or two 64 kbit/s circuit-mode connections in the ISDN. The picture information transmitted is sufficient for adequate representation of fluid movements of a person displayed in head and shoulders view.

Procedures for the correlation of two independent connections within the same videotelephony call are outside the scope of this ETS. This places responsibility on the user of this service to avoid situations where certain supplementary services are being used, and also situations where multiple calls are being presented to the same user at the same time.

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This ETS is applicable to the stage three standards for the ISDN videotelephony 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 text of the relevant stage three standards.

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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

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 I.210 (1988): "Principles of telecommunication services supported by an ISDN and the means used to describe them".

[4] CCITT Recommendation Q.65 (1988): "Stage 2 of the method for the characterisation of services supported by an ISDN".

[5] CCITT Recommendation Q.71 (1988): "ISDN 64 kbit/s circuit-mode switched bearer services".

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[6] CCITT Recommendation Z.100 (1988): "Functional Specification and Description Language (SDL)".

[7] ETS 300 143: "Integrated Services Digital Network (ISDN); Audiovisual services; Inband signalling procedures for audiovisual terminals using digital channels up to 2 048 kbit/s" (equivalent to ITU-T Recommendation H.242).

[8] 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.

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

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

Videotelephony terminal: a terminal that supports the videotelephony teleservice.

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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

Not applicable.

6 Derivation of the functional model

6.1 Functional model description

The functional model for the videotelephony teleservice is shown in figure 1.

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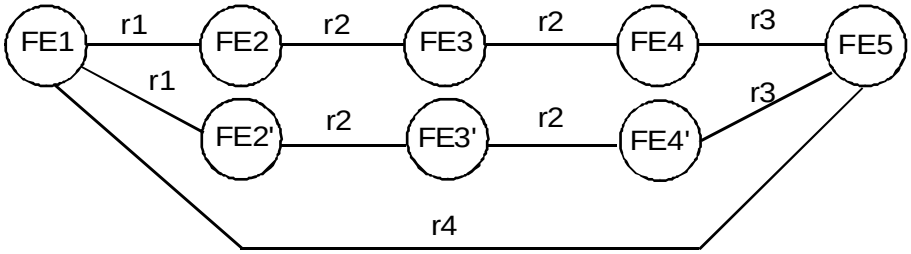

NOTE: FE2', FE3' and FE4' relate to the provision of a second connection. FE2', FE3' and FE4' are identical in functionality to that of FE2, FE3 and FE4 respectively, except as described in Clauses 8 and 9.

Figure 1: Functional model

6.2 Description of the functional entities

The Functional Entities (FEs) required by the videotelephony 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: Terminating call control agent.

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7 Information flows

The following information flow diagrams contain only the information flows modified for the videotelephony teleservice. For the complete information flow diagrams, see CCITT Recommendation Q.71 [5]. Only the additional functional entity actions are mentioned in the flow diagrams.

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The interworking between a videotelephony terminal requesting a call based on using two circuit-mode 64 kbit/s connections and other terminals (e.g. 3,1 kHz terminal) is identical to the interworking between a videotelephony terminal requesting a call based on using one circuit-mode 64 kbit/s connection and other terminals.

7.1 Information flow diagrams

The information flows are shown in figures 2 to 5. The following information flows are depicted:

Figure 2: Call according to the videotelephony teleservice using two circuit-mode 64 kbit/s connections;

Figure 3: Videotelephony terminal to 3,1 kHz terminal call setup (the calling videotelephony terminal allows the fallback to the telephony 3,1 kHz teleservice);

Figure 4: Videotelephony terminal to 7 kHz terminal call setup (the calling videotelephony terminal allows the fallback);

Figure 5: Videotelephony terminal capable of supporting two 64 kbit/s connections to a videotelephony terminal capable of supporting only one 64 kbit/s connection call setup.

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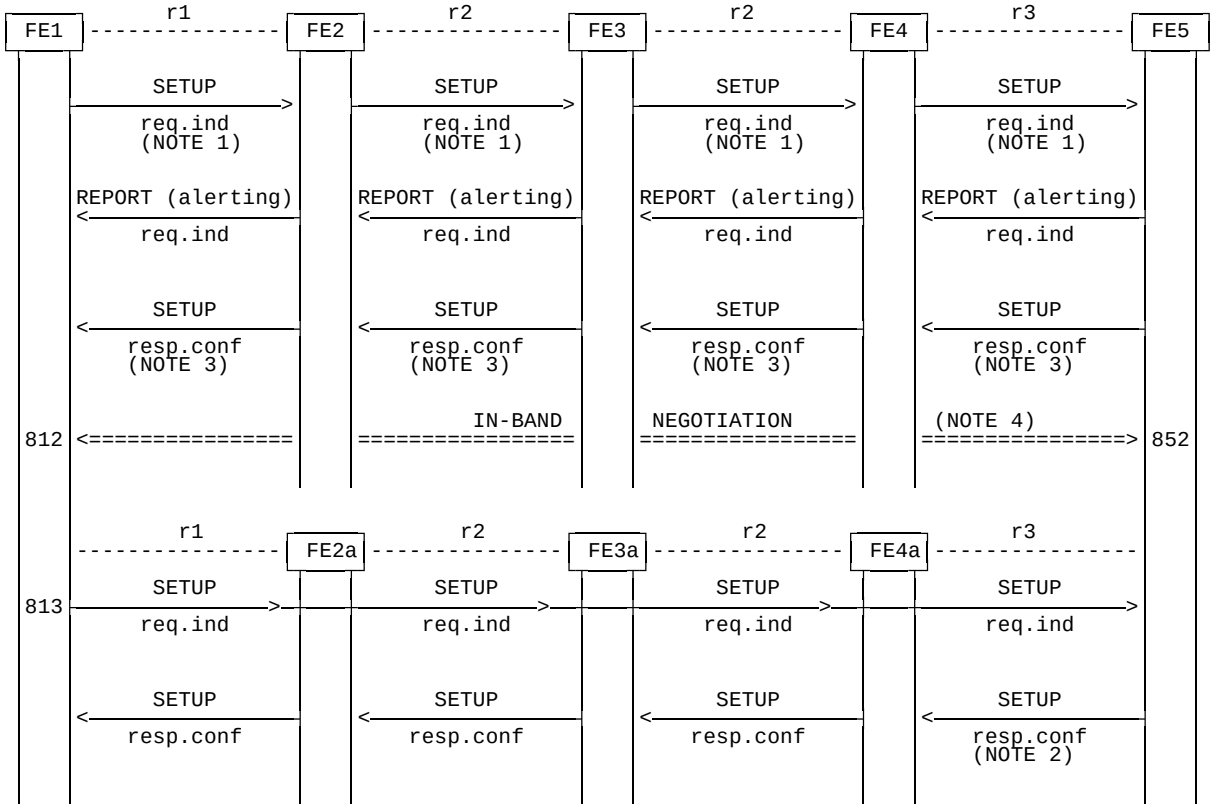

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NOTE 1: For a call according to the videotelephony teleservice, the first connection request, compatibility information indicates the videotelephony teleservice with fallback allowed to the telephony 3,1 kHz teleservice.

NOTE 2: For a call according to the videotelephony teleservice, the second connection request, the called 2B videotelephony terminal answers as an automatic answer terminal.

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NOTE 3: Response information flow with indication "videotelephony teleservice".

NOTE 4: Initial communication mode setup as described in ETS 300 143 [7] and ETS 300 144 [8]. The second call will be setup at the end of the in-band negotiation conducted on the first connection. The second connection will be setup only if the two videotelephony terminals are working in the 2 x 64 kbit/s mode at the end of the in-band negotiation.

Figure 2: Call according to the videotelephony teleservice using two circuit-mode 64 kbit/s connections