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Digitalno omrežje z integriranimi storitvami (ISDN) - Dopolnilna storitev: konferenca treh (3PTY) - Funkcijske zmožnosti in informacijski tokovi

Integrated Services Digital Network (ISDN); Three-Party (3PTY) supplementary service; Functional capabilities and information flows

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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 supplementary 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 Three-Party (3PTY) supplementary service. The stage 1 and stage 3 aspects are detailed in ETS 300 186 (1993) and ETS 300 188 (1993), respectively.

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1 Scope

This standard defines the stage two of the Three-Party (3PTY) supplementary service for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunications operators. Stage two identifies the functional capabilities and the information flows needed to support the service as described in stage one. The stage two description also identifies user operations not directly associated with a call (see CCITT Recommendation I.130 [2]).

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

In addition this standard does not specify the requirements where the service is provided to the user via a private ISDN. This standard 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 standard does not specify the additional requirements where the service is provided to the user via a telecommunications network that is not an ISDN.

The 3PTY supplementary service enables a user to establish, participate in and control, a three-way conversation, i.e. a simultaneous communication involving the served user and two remote parties.

The 3PTY supplementary service is applicable to all circuit-switched telecommunication services carrying speech.

This standard is the stage three standard for the ISDN 3PTY supplementary service. 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, or as a capability or possibility), this shall be reflected in the text of the relevant stage three standard.

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. 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 place 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.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 kbits/s circuit mode switched bearer service".

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

3 Definitions

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

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.

Three-way conversation: communication between all three user's agents, i.e. the served users agent and the two remote users agents.

4 Symbols and abbreviations

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

3PTY	Three-Party supplementary service
CC	Call Control
CCA	Call Control Agent
FE	Functional Entity
FEA	Functional Entity Action
ISDN	Integrated Services Digital Network
LE	Local Exchange
PTNX	Private Telecommunications Network Exchange
SDL	Specification and Description Language
TE	Terminal Equipment

5 Description

Not applicable.

6 Derivation of the functional model

6.1 Functional model description

The functional model for the 3PTY supplementary service is shown in figure 1.

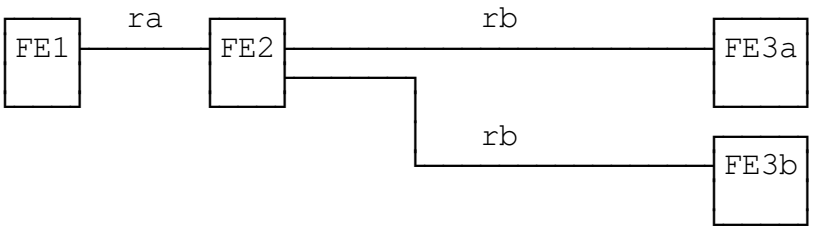

Figure 1: Functional model

6.2 Description of functional entities

The Functional Entities (FEs) required for the 3PTY supplementary service above those of the basic call are:

FE1: Served user's agent;

FE2: 3PTY control entity;

FE3: Remote user's agent.

6.3 Relationship with a basic service

The relationship of the 3PTY supplementary service with the basic service is shown in figure 2.

NOTE: The basic call model is defined in CCITT Recommendation Q.71 [4], § 3.2.1, with the exception that r1 represents an outgoing call relationship from a Call Control Agent (CCA) and r3 represents an incoming call relationship to a CCA.

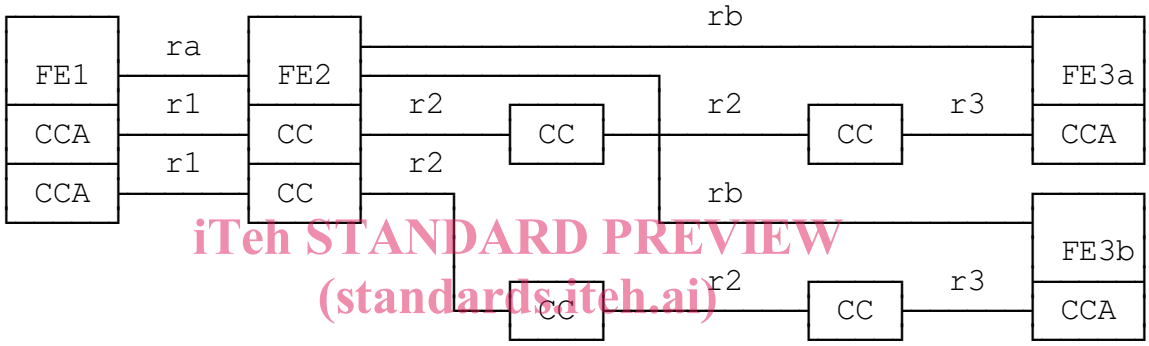

Figure 2

7 Information flows

7.1 Information flow diagrams

The information flows for the 3PTY supplementary service are shown in figures 3 to 7 for the following procedures:

Figure 3: Begin three-way conversation;

Figure 4: Create private communication (two cases);

Figure 5: Disconnect call by remote user whilst in three-way conversation mode;

Figure 6: Disconnect call by served user whilst in three-way conversation mode;

Figure 7: Disconnect entire call by served user whilst in three-way conversation mode.

NOTE: The information flow diagrams for the clearing of connections are provided in CCITT Recommendation Q.71 [4].

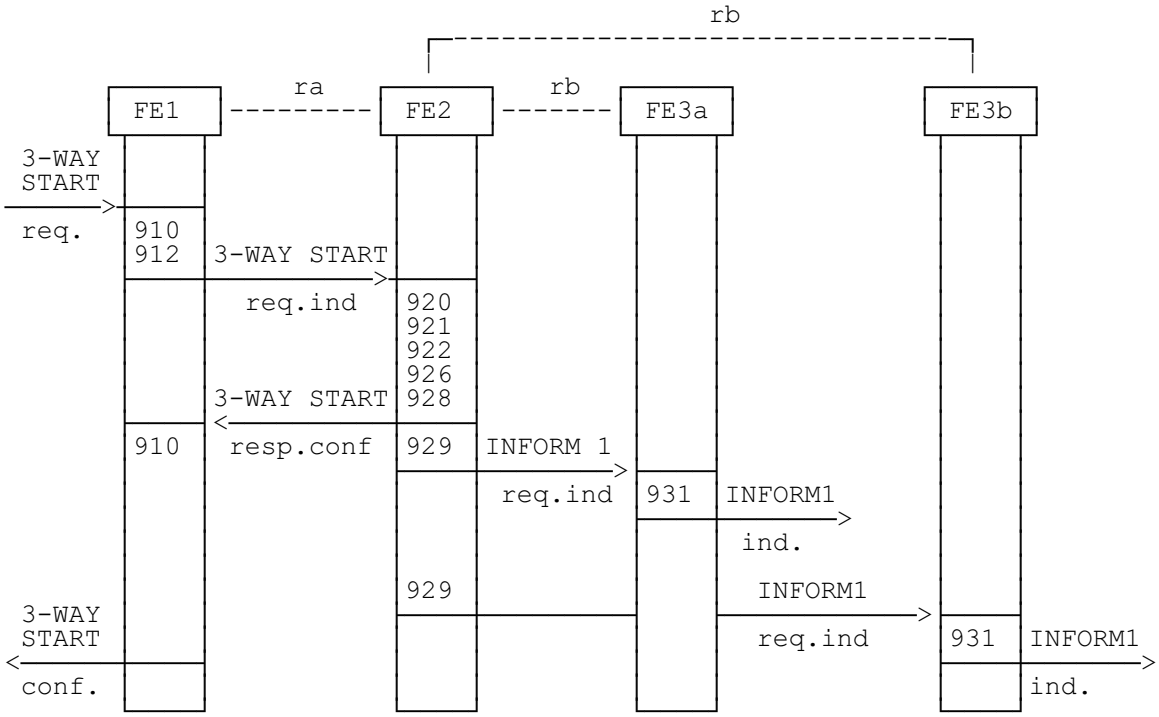

Figure 3: Begin three-way conversation