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Digitalno omrežje z integriranimi storitvami (ISDN) – Dopolnilna storitev: predaja klica ob zasedenosti (CFB) – Opis storitve

Integrated Services Digital Network (ISDN); Call Forwarding Busy (CFB) supplementary service; Service description

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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 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 Call Forwarding Busy (CFB) supplementary service. The stage 2 and stage 3 aspects are detailed in ETS 300 203 (1994) and ETS 300 207 (1994) respectively.

Proposed transposition dates	
Date of latest announcement of this ETS (doa):	31 March 1995
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	30 September 1995
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1 Scope

This standard defines the stage one of the Call Forwarding Busy (CFB) supplementary service 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.

Interaction with supplementary services not listed in clause 8 are outside the scope of this standard.

The CFB supplementary service enables a served user to have the network redirect to another user calls which are addressed to the served user's ISDN number and meet busy. The CFB supplementary service may operate on all calls, or just those associated with specified basic services. The served user's ability to originate calls is unaffected by the CFB supplementary service.

The CFB supplementary service is applicable to all circuit-switched telecommunication services.

This standard is applicable to the stage two and stage three standards for the ISDN CFB supplementary service. 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 authorization leaving freedom, 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 standards 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 characterization 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.221 (1988): "Common specific characteristics of services".
- [4] CCITT Recommendation I.210 (1988): "Principles of telecommunication services supported by an ISDN and the means to describe them".
- [5] CCITT Recommendation E.164 (1991): "Numbering plan for the ISDN era".
- [6] CCITT Recommendation Q.9 (1988): "Vocabulary of switching and signalling terms".

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.

(basic) service; telecommunications service: See CCITT Recommendation I.112 [2], § 2.2, definition 201.

served user: The user to whom the CFB supplementary service is provided.

user A: The calling user in a call which is subject to diversion.

user B: The served user when a call (from user A) is subject to the CFB supplementary service.

NOTE: In the context of multiple diversions, a suffix is used, e.g. 1, 2, ... n, n+1, ... m, to denote the successive diverting users. For example, user B3 is also the diverted-to user with respect to the diversion applied at user B2.

user C: The forwarded-to user in a call which is subject to the CFB supplementary service. In the case of a call which is subject to multiple diversions, user C is the forwarded-to user with respect to the final call forwarding.

forwarded-to user: A user to whom the call is redirected as a result of forwarding.

diverted-to user: A user to whom a call is redirected as a result of diversion.

busy: See CCITT Recommendation I.221 [3], § 3.1-5.

supplementary service: See CCITT Recommendation I.210 [4], paragraph 2.4.

ISDN number: A number conforming to the numbering plan and structure specified in CCITT Recommendation E.164 [5].

basic access: See CCITT Recommendation Q.9 [6], § 1, definition 1551.

primary rate access: See CCITT Recommendation Q.9 [6], § 1, definition 1552.

address: See CCITT Recommendation E.164 [5], § 12.

subaddress: See CCITT Recommendation E.164 [5], § 12.2.

user determined user busy: see CCITT Recommendation I.221 [3], § 3.1.4.

network determined user busy: See CCITT Recommendation I.221 [3], § 3.1.4.

(call) forwarding: A general term applied to any functionality whereby a call is redirected automatically by the service provider to another user. The forms of forwarding are: unconditional, whereby all calls are redirected; busy, whereby calls encountering busy are redirected; and, no reply, whereby calls which are not answered within a time period are redirected.

diversion: A general term which includes all forms of forwarding, and includes deflection whereby calls are redirected by the user instead of being answered.

basic call procedures: The procedures by which a call (as an instance of a basic telecommunication service) is established and terminated.

diverting user: A user for whom the call is subjected to diversion.

4 Symbols and abbreviations

CFB	Call Forwarding Busy
ISDN	Integrated Services Digital Network
PSTN	Public Switched Telephone Network

5 Description

The CFB supplementary service shall be available to users who are connected to the network via a basic access or a primary rate access.

The CFB supplementary service enables a served user to have the network redirect to another user calls which are addressed to the served user's ISDN number and meet busy. The CFB supplementary service may operate on all calls, or just those associated with specified basic services. The served user's ability to originate calls is unaffected by the CFB supplementary service.

As a service provider option, a subscription option can be provided to enable the served user to receive an indication that the CFB supplementary service has been activated. This indication shall be provided when the served user originates a call if the CFB supplementary service has been activated for the served user's ISDN number and for the basic service requested for the call.

The maximum number of diversions permitted for each call is a service provider option with an upper limit of five diversions. When counting the number of diversions, all types of diversion are included.

6 Procedures

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6.1 Provision and withdrawal

The CFB supplementary service shall be provided after prior arrangement with the service provider.

As a service provider option, the CFB supplementary service can be provided on a per ISDN number basis, or the CFB supplementary service can apply to the whole access. If a service provider offers both of these options, then it shall be a subscription option to choose which of these options applies.

In addition, the CFB supplementary service (including options) can be subscribed to for all basic services subscribed to by the user, or as a service provider option, the user can identify particular basic service(s) for which the CFB supplementary service shall apply.

As a service provider option, the service can be offered with one or more of four subscription options, which can apply separately to each basic service subscribed to. If the CFB supplementary service is provided on a per ISDN number basis, then these options can apply separately to each ISDN number. For each subscription option, only one value can be selected. Subscription options are summarized in table 1.