



**SLOVENSKI STANDARD**  
**SIST ETS 300 201 E1:2003**  
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**Digitalno omrežje z integriranimi storitvami (ISDN) – Dopolnilna storitev: podaja klica, ko ni odziva (CFNR) – Opis storitve**

Integrated Services Digital Network (ISDN); Call Forwarding No Reply (CFNR) 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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## Contents

Foreword .....	5
1 Scope .....	7
2 Normative references .....	7
3 Definitions .....	8
4 Symbols and abbreviations .....	9
5 Description .....	9
6 Procedures .....	9
6.1 Provision and withdrawal .....	9
6.2 Normal procedures .....	10
6.2.1 Activation, deactivation and registration .....	10
6.2.1.1 Activation .....	10
6.2.1.2 Deactivation .....	11
6.2.1.3 Registration .....	12
6.2.2 Erasure .....	12
6.2.3 Invocation and operation .....	12
6.2.3.1 Served user's view .....	12
6.2.3.2 Forwarded-to user's view .....	13
6.2.3.3 Calling user's view .....	13
6.2.4 Interrogation .....	14
6.3 Exceptional procedures .....	15
6.3.1 Activation, deactivation and registration .....	15
6.3.1.1 Activation .....	15
6.3.1.2 Deactivation .....	16
6.3.1.3 Registration .....	16
6.3.2 Erasure .....	17
6.3.3 Invocation and operation .....	17
6.3.4 Interrogation .....	17
7 Intercommunication considerations .....	18
7.1 Interworking with non-ISDNs .....	18
7.2 Interworking with private ISDNs .....	18
8 Interaction with other supplementary services .....	19
8.1 Advice of charge services .....	19
8.1.1 Charging information at call set-up time .....	19
8.1.2 Charging information during the call .....	19
8.1.3 Charging information at the end of the call .....	19
8.2 Call waiting .....	19
8.3 Call hold .....	19
8.4 Explicit call transfer .....	20
8.5 Number identification services .....	20
8.5.1 Calling line identification presentation .....	20
8.5.2 Calling line identification restriction .....	20
8.5.3 Connected line identification presentation .....	20
8.5.4 Connected line identification restriction .....	20
8.6 Closed user group .....	21
8.7 Completion of calls to busy subscriber .....	21
8.8 Conference services .....	21
8.8.1 Conference call, add-on .....	21
8.8.2 Meet me-conference .....	21

8.9	Direct dialling in .....	21
8.10	Diversion services .....	22
	8.10.1 Call forwarding unconditional .....	22
	8.10.2 Call forwarding busy .....	22
	8.10.3 Call forwarding no reply .....	22
	8.10.4 Call deflection .....	22
8.11	Freephone .....	22
8.12	Malicious call identification .....	22
8.13	Multiple subscriber number .....	23
8.14	Subaddressing .....	23
8.15	Terminal portability .....	23
8.16	Three party .....	23
8.17	User-to-user signalling .....	23
Annex A (informative):	Interaction between user-to-user signalling and the CFNR supplementary service.....	25
History .....		26

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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 No Reply (CFNR) supplementary service. The stage 2 and stage 3 aspects are detailed in ETS 300 205 (1994) and ETS 300 207 (1994), respectively.

<b>Proposed transposition dates</b>	
Date of latest announcement of this ETS (doa):	31 March 1995
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## 1 Scope

This standard defines the stage one of the Call Forwarding No Reply (CFNR) 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.

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

Charging principles are outside the scope of this standard.

The CFNR 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 for which the connection is not established within a defined period of time. The CFNR 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 CFNR supplementary service.

The CFNR 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 CFNR 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, 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 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 dated 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 E.164 (1991): "Numbering plan for the ISDN era".
- [4] CCITT Recommendation I.210 (1988): "Principles of telecommunication services supported by an ISDN and the means to describe them".
- [5] CCITT Recommendation Q.9 (1988): "Vocabulary of switching and signalling terms".

### 3 Definitions

For the purpose 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.

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

**ISDN number:** A number conforming to the numbering plan and structure specified in CCITT Recommendation E.164 [3].

**served user:** The user to whom the CFNR 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 CFNR 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 CFNR 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.

**basic access:** See CCITT Recommendation Q.9 [5], § 1, definition 1551.

**primary rate access:** See CCITT Recommendation Q.9 [5], § 1, definition 1552.

**address:** See CCITT Recommendation E.164 [3], § 12.

**subaddress:** See CCITT Recommendation E.164 [3], § 12.2.

**(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

CFNR	Call Forwarding No Reply
ISDN	Integrated Services Digital Network
PSTN	Public Switched Telephone Network

## 5 Description

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

The CFNR 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 for which the connection is not established within a defined period of time. The CFNR 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 CFNR supplementary service.

The CFNR supplementary service can only be invoked by the network after the call has been offered to the served user and an indication that the called user is being informed of the call has been received.

As a service provider option, a subscription option can be provided to enable the served user to receive an indication that the CFNR supplementary service has been activated. This indication shall be provided when the served user originates a call if the CFNR 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

### 6.1 Provision and withdrawal

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

As a service provider option, the CFNR supplementary service can be provided on a per ISDN number basis, or the CFNR 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 CFNR 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 CFNR 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 CFNR 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.