



SLOVENSKI STANDARD
SIST EN 301 133 V1.1.1:2003
01-december-2003

Digitalno omrežje z integriranimi storitvami (ISDN) – Dopolnilne storitve podaje selektivnih klicev (brezpogojna, v primeru zasedenosti, ko ni odziva) – Opis storitve

Integrated Services Digital Network (ISDN); Selective Call Forwarding (SCF) supplementary services (unconditional, busy and no reply); Service description

iTeh STANDARD PREVIEW
(standards.iteh.ai)

<https://standards.iteh.ai/catalog/standards/sist/6bb79b9a-b738-4eec-b9ad-63001b4c317c/sist-en-301-133-v1-1-1-2003>

Ta slovenski standard je istoveten z: EN 301 133 Version 1.1.1

ICS:

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

SIST EN 301 133 V1.1.1:2003

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 301 133 V1.1.1:2003](https://standards.iteh.ai/catalog/standards/sist/6bb79b9a-b738-4eec-b9ad-b300f84e317c/sist-en-301-133-v1-1-1-2003)

<https://standards.iteh.ai/catalog/standards/sist/6bb79b9a-b738-4eec-b9ad-b300f84e317c/sist-en-301-133-v1-1-1-2003>

EN 301 133 V1.1.1 (1998-10)

European Standard (Telecommunications series)

Integrated Services Digital Network (ISDN); Selective Call Forwarding (SCF) supplementary services (unconditional, busy and no reply); Service description

**iTeh STANDARD PREVIEW
(standards.iteh.ai)**

[SIST EN 301 133 V1.1.1:2003](https://standards.iteh.ai/catalog/standards/sist/6bb79b9a-b738-4ecc-b9ad-b300f84e317c/sist-en-301-133-v1-1-1-2003)

<https://standards.iteh.ai/catalog/standards/sist/6bb79b9a-b738-4ecc-b9ad-b300f84e317c/sist-en-301-133-v1-1-1-2003>



Reference

DEN/NA-020008 (aho00ico.PDF)

Keywords

ISDN, stage 1, supplementary service, SCF

ETSI**Postal address**

F-06921 Sophia Antipolis Cedex - FRANCE

Office address

650 Route des Lucioles - Sophia Antipolis
Valbonne - FRANCE

Tel.: +33 4 92 94 42 00 - Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C

Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

Internet

secretariat@etsi.fr

<http://www.etsi.org>

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 1998.
All rights reserved.

Contents

Intellectual Property Rights.....	5
Foreword	5
1 Scope.....	6
2 References.....	6
2.1 Normative references	6
2.2 Informative references	7
3 Definitions and abbreviations	7
3.1 Definitions	7
3.2 Abbreviations.....	8
4 Description	8
5 Procedures.....	8
5.1 Provision and withdrawal.....	8
5.2 Normal procedures.....	9
5.2.1 Activation, deactivation and registration.....	9
5.2.1.1 Activation	9
5.2.1.2 Deactivation.....	9
5.2.1.3 Registration.....	10
5.2.2 Erasure	10
5.2.3 Invocation and operation.....	10
5.2.4 Interrogation.....	10
5.3 Exceptional procedures.....	11
5.3.1 Activation, deactivation and registration.....	11
5.3.1.1 Activation	11
5.3.1.2 Deactivation.....	11
5.3.1.3 Registration.....	11
5.3.2 Erasure	11
5.3.3 Invocation and operation.....	12
5.3.4 Interrogation.....	12
6 Intercommunication considerations	12
6.1 Interworking with non-ISDN	12
6.2 Interworking with private ISDNs.....	12
7 Interaction with other supplementary services.....	12
7.1 Advice of charge services	12
7.2 Call waiting.....	12
7.3 Call hold	12
7.4 Explicit call transfer.....	13
7.5 Number identification services	13
7.5.1 Calling line identification presentation.....	13
7.5.2 Calling line identification restriction.....	13
7.5.3 Connected line identification presentation	13
7.5.4 Connected line identification restriction.....	13
7.6 Closed user group	13
7.7 Call completion services	13
7.7.1 Completion of calls to busy subscriber.....	13
7.7.2 Completion of calls on no reply	13
7.8 Conference services	14
7.8.1 Conference call, add-on.....	14
7.8.2 Meet-me conference.....	14
7.9 Direct dialling in	14
7.10 Diversion services.....	14
7.10.1 Call forwarding unconditional.....	14
7.10.2 Call forwarding busy	14

7.10.3	Call forwarding no reply	14
7.10.4	Call deflection	14
7.10.5	Selective call forwarding	15
7.11	Freephone	15
7.12	Malicious call identification.....	15
7.13	Multiple subscriber number	15
7.14	Subaddressing	15
7.15	Terminal portability	15
7.16	Three party.....	15
7.17	User-to-user signalling	15
7.18	Outgoing call barring	16
7.18.1	Outgoing call barring: fixed	16
7.18.2	Outgoing call barring: user controlled.....	16
7.19	Message waiting indication.....	16
8	Interaction with other services	16
8.1	Universal Access Number (UAN).....	16
8.2	Virtual card calling	16
8.3	Premium rate.....	17
8.4	Televoting	17
8.5	Remote control.....	17
	History	18

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 301 133 V1.1.1:2003](https://standards.iteh.ai/catalog/standards/sist/6bb79b9a-b738-4ecc-b9ad-b300f84e317c/sist-en-301-133-v1-1-1-2003)

<https://standards.iteh.ai/catalog/standards/sist/6bb79b9a-b738-4ecc-b9ad-b300f84e317c/sist-en-301-133-v1-1-1-2003>

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available **free of charge** from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://www.etsi.org/ipr>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Network Aspects (NA).

The following three level structure is used to describe the supplementary telecommunications services:

- 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.

(standards.iteh.ai)

National transposition dates	
Date of adoption of this EN:	30 October 1998
Date of latest announcement of this EN (doa):	31 January 1999
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 July 1999
Date of withdrawal of any conflicting National Standard (dow):	31 July 1999

1 Scope

The present document defines the stage one of the Selective Call Forwarding (SCF) 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, but does not deal with the details of the human interface itself.

The present document defines the interworking requirements of private ISDNs with the public ISDN.

In addition the present document specifies the base functionality where the service is provided to the user via a private ISDN.

The present document 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 the present document.

Interaction with supplementary services not listed in clauses 7 and 8 are outside the scope of the present document.

The present document deals with the selection mechanisms of the SCF supplementary service. For details of the mechanisms by which calls are forwarded, refer to the service descriptions of the call forwarding supplementary services (see ETS 300 200 [5], ETS 300 199 [6], and ETS 300 201 [7]).

The SCF supplementary service enables a served user to specify the forwarding of their incoming calls to a selected destination subject to certain conditions or circumstances e.g. the calling line identity of the calling user.

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

The present document is applicable to the stage two and stage three standards for the ISDN SCF 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 the present document 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 the present document.

2 References

References may be made to:

- a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or
- b) all versions up to and including the identified version (identified by "up to and including" before the version identity); or
- c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or
- d) publications without mention of a specific version, in which case the latest version applies.

A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

2.1 Normative references

- [1] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".

- [2] ITU-T Recommendation I.112 (1993): "Vocabulary of terms for ISDNs".
- [3] ITU-T Recommendation I.210 (1993): "Principles of telecommunication services supported by an ISDN and the means to describe them".
- [4] ITU-T Recommendation E.164 (1997): "The international public telecommunication numbering plan".
- [5] ETS 300 200: "Integrated Services Digital Network (ISDN); Call Forwarding Unconditional (CFU) supplementary service; Service description".
- [6] ETS 300 199: "Integrated Services Digital Network (ISDN); Call Forwarding Busy (CFB) supplementary service; Service description".
- [7] ETS 300 201 including A1: "Integrated Services Digital Network (ISDN); Call Forwarding No Reply (CFNR) supplementary service; Service description".
- [8] Void.
- [9] EN 301 134: "Integrated Services Digital Network (ISDN); Completion of Calls on No Reply (CCNR) supplementary service; Service description".

2.2 Informative references

- [10] ETS 300 345: "Integrated Services Digital Network (ISDN); Interworking between public ISDNs and private ISDNs for the provision of telecommunication services; General aspects".

iTeh STANDARD PREVIEW

3 Definitions and abbreviations

3.1 Definitions

[SIST EN 301 133 V1.1.1:2003](https://standards.iteh.ai/catalog/standards/sist/6bb79b9a-b738-4ecc-b9ad-b300f84e317c/sist-en-301-133-v1-1-1-2003)

<https://standards.iteh.ai/catalog/standards/sist/6bb79b9a-b738-4ecc-b9ad-b300f84e317c/sist-en-301-133-v1-1-1-2003>

For the purposes of the present document, the following definitions apply:

served user: a called user to whom the SCF supplementary service has been provided.

Integrated Services Digital Network (ISDN): see ITU-T Recommendation I.112 [2], subclause 2.3, definition 308.

service, telecommunication service: see ITU-T Recommendation I.112 [2], subclause 2.2, definition 201.

supplementary service: see ITU-T Recommendation I.210 [3], subclause 2.4.

ISDN number: a number conforming to the numbering plan and structure specified in ITU-T Recommendation E.164 [4].

screening list: a list containing conditions for forwarding, or for not forwarding, of a call.

basic access: see ITU-T Recommendation I.112, subclause 2.4, definition 425.

partial number: the most significant digit(s) of the ITU-T Recommendation E.164 international, national or local number.

primary rate access: see ITU-T Recommendation I.112 [2], subclause 2.4, definition 426.

explicit forwarding: forward all calls from specified calling number(s).

implicit forwarding: forward all calls except from the specified calling number(s).

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

CLI	Calling Line Identity
ISDN	Integrated Services Digital Network
SCF	Selective Call Forwarding
UAN	Universal Access Number

4 Description

The SCF supplementary service shall apply to the basic access and to the primary rate access.

The present document should be read in conjunction with the standards for the Call Forwarding services.

The SCF supplementary service is an incoming call management feature to the defined Call Forwarding supplementary services that allows the served user to define one or more screening lists. The number of screening lists available to users is a service provider option. Each screening list consists of a set of calling numbers. Incoming calls that satisfy the conditions identified by the screening list shall be forwarded to the forwarded-to ISDN number, which is registered on activation of the SCF supplementary service. The served user's ability to originate calls is unaffected by the SCF supplementary service.

If the incoming call contains two calling party numbers and only one of the numbers is on the screening list, forwarding shall take place if the additional forwarding conditions (if any) are met.

As a service provider option, the served user can also specify the forwarding of their incoming calls to destinations according to additional forwarding conditions, e.g.:

- time of day, day of week, etc.;
- area of call origination.

NOTE: The specification of these service provider options is outside the scope of the present document.

The served user can have multiple instances of the activation of the SCF supplementary service, i.e. more than one screening list may be in use. This enables calls to be forwarded to different destinations, according to different criteria in the screening lists.

For each screening list, the served user shall specify whether forwarding shall be done unconditionally see ETS 300 200 [5], and/or on busy see ETS 300 199 [6], and/or on no reply see ETS 300 201 [7].

All parameters specified by the served user in a screening list shall be independent from those specified in the other screening lists belonging to the served user.

The SCF supplementary service shall operate with complete or partial calling number(s) specified in local, national or international format and the selected calling number(s) shall be able to be specified both explicitly (i.e. forward all calls from specified calling number(s) and implicitly (i.e. forward all calls except from the specified calling numbers).

5 Procedures

5.1 Provision and withdrawal

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

As a service provider option the service can be offered with the following subscription options giving

- the number of screening lists per access / number (range 1 to 15);
- the number of entries per screening list (range 1 to 20).

The maximum values used are chosen by the network operator from the above ranges.

The SCF supplementary service 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 SCF supplementary service shall apply.

The SCF supplementary service shall be withdrawn by the service provider upon request of the subscriber or for service provider reasons.

NOTE: The relationship of subscription options between SCF and the related Call Forwarding Unconditional / Busy / No Reply standards should be a service provider's decision and are not stated in the present document.

5.2 Normal procedures

5.2.1 Activation, deactivation and registration

5.2.1.1 Activation

To activate the SCF supplementary service, the served user shall supply the following information when requesting the activation of the SCF supplementary service:

- the type of forwarding (unconditional, see ETS 300 200 [5], on busy see ETS 300 199 [6], or on no reply see ETS 300 201 [7]) which shall be used;
- screening list identification (if the service provider only supports one screening list then this information may be omitted);
- depending on the type of forwarding which is being requested, the procedures of subclause 6.2.1.1 of ETS 300 200 [5] (for unconditional forwarding), of ETS 300 199 [6] (for forwarding on busy), or of ETS 300 201 [7] (for forwarding on no reply) shall also apply. The relevant information from these procedures shall be included in the activation request.

Multiple selective call forwarding activations are allowed to forward calls from different Calling Line Identities (CLIs) and/or different basic services, addressed to the served user's number, to different forwarded-to numbers. The served user can request a different forwarded-to number for each basic service subscription parameter value to which the user has subscribed.

Verification of the ISDN number of the forwarded-to user can be carried out before accepting the request to activate the SCF supplementary service. This verification can be limited, e.g. a simple check of the ISDN number of the forwarded-to user to see if the ISDN number is within the allowed number range.

When the served user's request to activate the SCF supplementary service is accepted, the service provider shall inform the served user. The information shall include the address of the forwarded-to user to whom the served user has activated the SCF supplementary service. All affected users shall be informed.

5.2.1.2 Deactivation

The SCF supplementary service can be deactivated in one of three ways:

- the served user can specifically deactivate a particular selective call forwarding activation, whereupon the network shall discard the forwarded-to number. All affected users shall be informed;
- the served user can deactivate all selective call forwarding activations for one type of call forwarding in a single operation, whereupon the network shall discard the forwarded-to numbers. All affected users shall be informed;
- the user can activate selective call forwarding for a specified combination of basic service, screening list identification and type of selective call forwarding supplementary service (unconditional, busy, no reply) to another forwarded-to number, thus causing the previous activation of selective call forwarding to be deactivated (i.e. overwritten). All affected users shall be informed.