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*European Standard (Telecommunications series)*

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

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*European Telecommunications Standards Institute*

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Pursuant to the ETSI Interim 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 ETR 314 (or the updates on <http://www.etsi.fr/ipr>) which are, or may be, or may become, essential to the present document.

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## Foreword

This European Standard (Telecommunications series) has been produced by the Network Aspects (NA) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Public Enquiry phase of the ETSI standards Two-step Approval Procedure.

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;
- Stage 3: defines the signalling system protocols and switching functions needed to implement the service described in stage 1.

<b>Proposed national transposition dates</b>	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

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# 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.

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# 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.

- [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: "Integrated Services Digital Network (ISDN); Call forwarding No Reply (CFNR) supplementary service; Service description".
- [8] ETS 300 189 (1992): "Private Telecommunications Networks (PTN): Addressing".
- [9] ETS 300 345 (1995): "Integrated Services Digital Network (ISDN); Interworking between public ISDNs and private ISDNs for the provision of telecommunication services; General aspects".

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## 3 Definitions and abbreviations

### 3.1 Definitions

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 CCITT Recommendation I.112 [2], paragraph 2.3, definition 308.

**service, telecommunication service:** See CCITT Recommendation I.112 [2], paragraph 2.2, definition 201.

**supplementary service:** See CCITT Recommendation I.210 [3], paragraph 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, paragraph 2.4, definition 425.

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

**primary rate access:** See ITU-T Recommendation I.112 [2], paragraph 2.4, definition 426.

**Private Numbering Plan (PNP):** See ETS 300 189 [8]

**PNP group:** Set of users who use the same private numbering plan to make and receive PNP calls.

**PNP call:** Call made by a PNP group member to another member or virtual member of the same PNP group by means of the PNP.

**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:

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

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## 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. 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).

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## 5 Procedures

### 5.1 Provision and withdrawal

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

The service can be offered with the following subscription options giving

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

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 be stated in this SCF standard.

## 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(s) (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;
- 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.

Only those screening lists identified at activation shall be taken account of during call processing.

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

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 either of two 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 user can activate selective call forwarding for a specified combination of basic service screening list number and type of selective call forwarding supplementary service (unconditional, busy, no reply) to another number, thus causing the previous activation of selective call forwarding to be deactivated. All affected users shall be informed.

#### 5.2.1.3 Registration

Registration occurs during the provision of the SCF supplementary service. As a service provider option the served user may be given the option to modify, add or delete entries to the screening list or add or delete the lists. These procedures

are outside the scope of the present document. At this time the status of the list, explicit or implicit shall be stated. Priority of screening lists, if applicable, shall be indicated at registration.

NOTE: If an end-user activates two or more lists for the same style of forwarding service and one list is explicit and the other implicit, if one or more Calling line identities (CLIs) are included in both lists a conflict could result. The lists priority could be used to resolve this conflict.

## 5.2.2 Erasure

Not applicable.

## 5.2.3 Invocation and operation

If the SCF supplementary service is activated and the forwarding conditions are met (e.g. with respect to calling line identity, time of day, day of week, etc.), the call shall be forwarded according to the procedures of the forwarding service specified for the activated list(s).

Depending on the type of forwarding which is being performed, the procedures of subclause 6.2.3 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.

If an incoming call does not fit against any forwarding criteria contained on the screening list(s) then the call shall be treated according to the normal basic call procedures.

## 5.2.4 Interrogation

The served user can make a request for interrogation towards the network in order to determine the status of the SCF supplementary service. Interrogation can be requested for the whole access (in the case of forwarding for the whole access), or on a per ISDN number basis.

When subscription applies on a per ISDN number basis and more than one ISDN number is allocated to the access, the served user shall also supply the ISDN number for which the request for interrogation of the SCF supplementary service shall apply.

When subscription applies for the whole access or only one ISDN number is allocated to the access, the served user need not provide an ISDN number to identify the served user. If the served user includes an ISDN number allocated to that access, then the number shall be ignored.

In the case of a general request, the user shall indicate whether the user wants to interrogate all screening lists or only the screening lists in use.

In the case of a specific request the user shall indicate the applicable screening list. In the network response to an interrogation request the following information shall be provided:

- a) in response to a general request the served user, shall be given a list:
  - of the served user's screening lists in use;
  - or all their screening lists and status.

where for each screening list the following information shall be given:

- screening list in use or not;
- type of forwarding mechanism (unconditional, on busy, or on no reply);
- the forwarded-to number.

b) in response to a specific request concerning one particular entry in the list under a) above, the following information shall be given:

- a list of all entries in the particular screening list;

- whether forwarding shall be done explicitly or implicitly;
- the forwarded-to number.

## 5.3 Exceptional procedures

### 5.3.1 Activation, deactivation and registration

#### 5.3.1.1 Activation

If the system cannot accept an activation request, the served user shall receive a notification that the SCF supplementary service activation was unsuccessful. Possible causes for rejection are:

- the SCF supplementary service is not subscribed to;
- no screening list specified;
- invalid screening list identification;
- the ISDN number of the forwarded-to user is the served user's ISDN number;
- forwarded-to number is an invalid ISDN number;
- forwarded-to number is a special service number (see note);
- the SCF supplementary service does not apply to the basic service for which activation is requested;
- type of forwarding (unconditionally, busy, or no reply) not specified;
- insufficient information provided by the user.

NOTE: Service providers may prevent a served user from activating the SCF supplementary service when the ISDN number specified for the forwarded-to user has special significance, e.g. emergency services, operator services. The identification of such numbers is outside the scope of the present document.

#### 5.3.1.2 Deactivation

If a deactivation request cannot be accepted, the served user shall receive a notification that the SCF supplementary service deactivation was unsuccessful. Possible causes for rejection are:

- the SCF supplementary service is not subscribed to;
- the SCF supplementary service has not been activated;
- insufficient information provided by the user.

#### 5.3.1.3 Registration

Not applicable.

### 5.3.2 Erasure

Not applicable.

### 5.3.3 Invocation and operation

Depending on the type of forwarding which is being performed, the procedures of subclause 6.3.3 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 apply.

### 5.3.4 Interrogation

If the request to interrogate the SCF supplementary service includes an inaccurate indication of a screening list then the request for the interrogation of the SCF supplementary service shall be rejected.

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## 6 Intercommunication considerations

### 6.1 Interworking with non-ISDN

Depending on the type of forwarding which is being performed, the procedures of subclause 7.1 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 apply.

### 6.2 Interworking with private ISDNs

Interworking with private ISDNs shall include the requirements given in reference [9].

Depending on the type of forwarding which is being performed, the procedures of subclause 7.2 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 apply.

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## 7 Interaction with other supplementary services

### 7.1 Advice of charge services

Depending on the type of forwarding which is being performed, the procedures of subclause 8.1 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 apply.

### 7.2 Call waiting

Depending on the type of forwarding which is being performed, the procedures of subclause 8.2 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 apply.

### 7.3 Call hold

Depending on the type of forwarding which is being performed, the procedures of subclause 8.3 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 apply.

### 7.4 Explicit call transfer

Depending on the type of forwarding which is being performed, the procedures of subclause 8.4 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 apply.

## 7.5 Number identification services

### 7.5.1 Calling line identification presentation

Depending on the type of forwarding which is being performed, the procedures of subclause 8.5.1 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 apply.

### 7.5.2 Calling line identification restriction

Depending on the type of forwarding which is being performed, the procedures of subclause 8.5.2 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 apply.

### 7.5.3 Connected line identification presentation

Depending on the type of forwarding which is being performed, the procedures of subclause 8.5.3 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 apply.

### 7.5.4 Connected line identification restriction

Depending on the type of forwarding which is being performed, the procedures of subclause 8.5.4 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 apply.

## 7.6 Closed user group

Depending on the type of forwarding which is being performed, the procedures of subclause 8.6 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 apply.

## 7.7 Call completion services

### 7.7.1 Completion of calls to busy subscriber

Depending on the type of forwarding which is being performed, the procedures of subclause 8.7 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 apply.

### 7.7.2 Completion of calls on no reply

Depending on the type of forwarding which is being performed, the procedures of subclause 8.7 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 apply.

## 7.8 Conference services

### 7.8.1 Conference call, add-on

Depending on the type of forwarding which is being performed, the procedures of subclause 8.8.1 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 apply.

## 7.8.2 Meet-me conference

Depending on the type of forwarding which is being performed, the procedures of subclause 8.8.2 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 apply.

## 7.9 Direct dialling in

Depending on the type of forwarding which is being performed, the procedures of subclause 8.9 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 apply.

## 7.10 Diversion services

### 7.10.1 Call forwarding unconditional

Invocation of the call forwarding unconditional supplementary service shall take precedence over the SCF supplementary service operating unconditionally.

### 7.10.2 Call forwarding busy

Invocation of the call forwarding busy supplementary service shall take precedence over the SCF supplementary service operating on busy.

### 7.10.3 Call forwarding no reply

Invocation of the call forwarding no reply supplementary service shall take precedence over the SCF supplementary service operating on no reply.

### 7.10.4 Call deflection

Not applicable for SCF supplementary service operating unconditionally.

No impact for SCF supplementary service operating on busy or on no reply, i.e. neither supplementary service shall affect the operation of the other supplementary service.

If the network indicates the arrival of an incoming call to the user, then the call deflection supplementary service, or the SCF supplementary service on busy or on no reply can be invoked, depending on the response, or lack of response from the served user.

### 7.10.5 Selective call forwarding

Invocation of the SCF supplementary service, unconditional mode, shall take precedence over invocation of the other modes (busy and no reply) of the SCF supplementary service.

### 7.10.6 Call forwarding Unconditional to a Service Centre

Invocation of the Call forwarding Unconditional to a Service Centre supplementary service shall take precedence over the SCF supplementary service.

## 7.11 Freephone

Depending on the type of forwarding which is being performed, the procedures of subclause 8.11 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 apply.

## 7.12 Malicious call identification

Depending on the type of forwarding which is being performed, the procedures of subclause 8.12 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 apply.

## 7.13 Multiple subscriber number

Depending on the type of forwarding which is being performed, the procedures of subclause 8.13 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 apply.

## 7.14 Sub addressing

Depending on the type of forwarding which is being performed, the procedures of subclause 8.14 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 apply.

## 7.15 Terminal portability

Depending on the type of forwarding which is being performed, the procedures of subclause 8.15 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 apply.

## 7.16 Three party service

Depending on the type of forwarding which is being performed, the procedures of subclause 8.16 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 apply.

## 7.17 User-to-user signalling

Depending on the type of forwarding which is being performed, the procedures of subclause 8.17 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 apply.

## 7.18 In-call modification

The incall-modification supplementary service shall apply to any existing call independently of the previous use of the SCF supplementary service.

The incall-modification supplementary service shall also override activated call forwarding for the SCF supplementary service, for the served and the remote users' sides.

## 7.19 Line and trunk hunting

### 7.19.1 Line hunting

When the SCF supplementary service has been activated unconditionally and if an incoming call matches the selection conditions, then the SCF supplementary service shall take priority over the Line hunting supplementary service.

When the SCF supplementary service has been activated on busy and if an incoming call matches the selection conditions, then the SCF supplementary service shall be invoked, when:

- all basic accesses are either network determined user busy or withdrawn from the hunt group; or
- the selected basic access is user determined user busy.

If the selective call forwarding supplementary service has been activated on busy as result of network determined user busy, a notification that the call has been forwarded shall not be given to the served user.

If the selective call forwarding supplementary service has been activated on busy as result of user determined user busy, a notification that the call has been forwarded shall be sent to the basic access to which the call has been presented.

When the SCF supplementary service has been activated on no reply, then: no impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

## 7.19.2 Trunk hunting

When the SCF supplementary service has been activated unconditionally and if an incoming call matches the selection conditions, then the SCF supplementary service shall take precedence over the Trunk hunting supplementary service.

When the SCF supplementary service has been activated on busy and if an incoming call matches the selection conditions, then when all accesses are busy or withdrawn from the hunt group the SCF supplementary service shall be invoked.

When the SCF supplementary service has been activated on no reply, then there is no impact, i.e. neither supplementary service shall affect the operation of the other supplementary service.

## 7.20 Support of private numbering plans

A user who subscribes to the SCF supplementary service may use a private number to identify the forwarded-to-user, e.g. on activation of the SCF supplementary service.

A private number may be used to identify the forwarding user. If this user can also be uniquely identified by an ISDN number, calls to this ISDN number shall also be forwarded. Similarly, if the forwarding user is identified by an ISDN number, calls made to the corresponding private number (if any) shall also be forwarded.

PNP calls which undergo forwarding to a member of the same PNP group will use the private number for identification of the calling user, forwarding user and forwarded-to user. Notifications for calls forwarded between PNP groups will use ISDN numbers.

When a non-PNP call is forwarded to the forwarding user's PNP Group, or when a PNP call is forwarded to a (non-PNP) ISDN number, the following principles shall apply for identification of the users involved in the forwarding:

- if the receiver of identification of users is a non-PNP user or a virtual member of a PNP Group, identification of the calling user, the first forwarding user and the last forwarding user, if applicable, shall be given in accordance with the ISDN (ITU-T Recommendation E.164 [4]) numbering plan;
- if the receiver of identification of users is a PNP Group member, identification of the calling user, the first forwarding user and the last forwarding user, if applicable, shall be given in accordance with the PNP for those users who belong to the same PNP Group. Identification of users who do not belong to the same PNP Group shall be given in accordance with the ISDN (ITU-T Recommendation E.164 [4]) numbering plan.

## 7.21 Outgoing call barring

### 7.21.1 Outgoing call barring: fixed

If the SCF supplementary service has been activated and the outgoing call barring-fixed supplementary service has been activated, the following shall apply:

- If the outgoing call barring-fixed supplementary service has already been activated, a request to activate the SCF supplementary service shall be rejected if the served user's call to the forwarded-to user would be barred by the outgoing call barring-fixed supplementary service.
- If the SCF supplementary service was activated before the activation of the outgoing call barring-fixed supplementary service, the SCF supplementary service shall not be affected.

### 7.21.2 Outgoing call barring: user controlled

If the SCF supplementary service has been activated and the outgoing call barring-user controlled has been activated, the following shall apply:

- if the outgoing call barring-user controlled supplementary service has already been activated, a request to activate the SCF supplementary service shall be rejected if the served user's call to the forwarded-to user would be barred by the outgoing call barring-user controlled supplementary service;
- if the SCF supplementary service was activated before the activation of the outgoing call barring-user controlled supplementary service, the SCF supplementary service shall not be affected.

## 7.22 Message Waiting Indication

The message waiting indication shall never be diverted. The indication shall be given to the receiving user at the receiving user's original location.

## 7.23 Remote control service

The SCF supplementary service can be remotely controlled.

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# 8 Interaction with other services

## 8.1 Universal Access Number (UAN)

### **Forwarding to an UAN number**

The number of diversions of the call shall not be lost after having been subjected to the UAN service.

### **Forwarding of an UAN call**

According to a service provider option, calls which are subject to the UAN service, i.e. "UAN calls", shall be forwarded in one of the following ways:

- UAN calls which are allocated to a user shall override the SCF supplementary service, if activated. Such calls shall be subject to other mechanisms for allocating the call to another user. The procedures for this are outside the scope of the present document;
- UAN calls which are allocated to a user shall be subject to the SCF supplementary service if it has been activated by that user. If a UAN call is forwarded, the calling user shall not receive information that the call has been forwarded, nor shall the calling user receiver the forwarded-to number.

## 8.2 Card calling services

### 8.2.1 Charge card calling

No impact, i.e. neither service shall affect the operation of the other service.

### 8.2.2 Virtual card calling

No impact, i.e. neither service shall affect the operation of the other service.

## 8.3 Premium rate

### **Forwarding to a premium rate number**

The number of diversions after the application of the premium rate service shall be the same as the number of diversions prior to the application of the premium rate service.

### **Forwarding of a premium rate call**

According to a service provider option, calls which are subject to the premium rate service, i.e. "premium rate calls", shall be forwarded in one of the following ways:

- premium rate calls which are allocated to a user shall override the SCF supplementary service, if activated. Such calls shall be subject to other mechanisms for allocating the call to another user. The procedures for this are outside the scope of the present document;
- premium rate calls which are allocated to a user shall be subject to the SCF supplementary service if it has been activated by that user. If a premium rate call is forwarded, the calling user shall not receive information that the call has been forwarded, nor shall the calling user receive the destination number of the forwarded-to user.

## 8.4 Televoting

### **Forwarding to a televoting number**

The number of diversions of the call shall not be lost after having been subjected to the televoting service.

### **Forwarding of a televoting call**

According to a service provider option, calls which are subject to the Televoting service, i.e. "televoting calls" shall be forwarded in one of the following ways:

- televoting calls which are allocated to a user shall override the SCF supplementary service, if activated. Such calls shall be subject to other mechanisms for allocating the call to another user. The procedures for this are outside the scope of the present document;
- televoting calls which are allocated to a user shall be subject to the SCF supplementary service if it has been activated by that user. If a televoting call is forwarded, the calling user shall not receive information that the call has been forwarded, nor shall the calling user receive the forwarded-to number.

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## History

<b>Document history</b>			
V1.1.1	December 1997	Public Enquiry	PE 9817: 1997-12-26 to 1998-04-24