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Contents

Intellectual Property Rights	5
Foreword	5
1 Scope	6
2 References	6
3 Definitions and abbreviations	7
3.1 Definitions	7
3.2 Abbreviations	7
4 Description	8
5 Procedures	8
5.1 Provision and withdrawal	8
5.2 Normal procedures	9
5.2.1 Registration and erasure.....	9
5.2.2 Activation and deactivation	9
5.2.2.1 Activation.....	9
5.2.2.2 Deactivation	10
5.2.3 Invocation and operation	10
5.2.4 Disabling.....	11
5.2.5 Interrogation	11
5.3 Exceptional procedures	11
5.3.1 Registration and erasure.....	11
5.3.2 Activation and deactivation	11
5.3.2.1 Activation.....	11
5.3.2.2 Deactivation	12
5.3.3 Invocation and operation	12
5.3.4 Disabling.....	12
5.3.5 Interrogation	12
6 Interworking requirements	12
6.1 Interworking with non-ISDNs	12
6.2 Interworking with private networks.....	12
7 Interaction with ISDN supplementary services.....	13
7.1 Advice of charge	13
7.1.1 Advice of charge at call set-up.....	13
7.1.2 Advice of charge during the call	13
7.1.3 Advice of charge at the end of a call.....	13
7.2 Call waiting	13
7.3 Call hold	13
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.....	14
7.7 Call completion services.....	14
7.7.1 Completion of calls to busy subscriber	14
7.7.2 Completion of calls on no reply	14
7.8 Conference services.....	14
7.8.1 Conference call, add-on	14
7.8.2 Conference call, meet-me	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	15
7.10.4	Call deflection.....	15
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	16
7.18	In-call modification	16
7.19	Hunting services	16
7.19.1	Line hunting.....	16
7.19.2	Trunk hunting	16
7.20	Support of private numbering plans	16
7.21	Call barring services.....	16
7.21.1	Outgoing call barring-fixed.....	16
7.21.2	Outgoing call barring-user controlled	16
8	Interactions with other services.....	16
8.1	Universal access number	16
8.2	Virtual card calling.....	16
8.3	Premium rate	17
8.4	Televoting.....	17
8.5	Remote control	17
	History	18

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

National transposition dates	
Date of adoption of this EN:	19 May 2000
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1 Scope

The present document defines the stage one of the Outgoing Call Barring-User Controlled (OCB-UC) supplementary service for the pan-European Integrated Services Digital Network (ISDN) as provided by European 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.

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.

Interactions with supplementary services not listed in clause 7 and other services not listed in clause 8 are outside the scope of the present document.

Charging principles are outside the scope of the present document.

The OCB-UC supplementary service enables calls belonging to certain types to be rejected when they are originated by the served user. The served user's ability to receive incoming calls is unaffected by the OCB-UC supplementary service. The served user can select the barring program, activate and later deactivate it.

NOTE: Barring of certain types of calls by the network provider due to national legislations, regulations or for any other reason, are out of the scope of this service.

The OCB-UC supplementary service is applicable to all circuit-switched telecommunications services.

The present document is applicable to the stage two and stage three standards for the ISDN OCB-UC 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 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

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, 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 E.164 (1997): "The international public telecommunications numbering plan".
- [4] ITU-T Recommendation I.210 (1993): "Principles of telecommunication services supported by an ISDN and the means to describe them".
- [5] ETSI ETS 300 345 (1995): "Integrated Services Digital Network (ISDN); Interworking between public ISDNs and private ISDNs for the provision of telecommunication services; General aspects".

3 Definitions and abbreviations

3.1 Definitions

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

(basic) service; telecommunications service: see ITU-T Recommendation I.112 [2], section 2.2, definition 201

barring program: selection of type of calls to which the calls can be barred. This selection can possibly relate to, or be complemented by, number ranges and/or prefixes

basic access: see ITU-T Recommendation I.112 [2], section 2.4, definition 425

disabling: action taken by the user per call to prevent invocation of the OCB-UC supplementary service

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

ISDN number: number conforming to the numbering plan and structure specified in ITU-T Recommendation E.164 [3]

network operator: entity which provides the network operating elements and resources for the execution of the OCB-UC supplementary service

Personal Identification Number (PIN): the PIN is the 4 to 12 position alphanumeric code or password the customer possesses for authentication. This is used to provide authentication of the user with the access device

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

served user: the user to whom the OCB-UC supplementary service is provided

service provider: entity which offers the OCB-UC supplementary service subscription. The network operator may be the service provider

supplementary service: see ITU-T Recommendation I.210 [4], section 2.4

3.2 Abbreviations

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

CCBS	Completion of Calls to Busy Subscriber
CCNR	Completion of Calls on No Reply
ISDN	Integrated Services Digital Network
OCB-F	Outgoing Call Barring-Fixed
OCB-UC	Outgoing Call Barring-User Controlled
PIN	Personal Identification Number

4 Description

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

The OCB-UC supplementary service enables calls belonging to certain types to be rejected when they are originated by the served user. The served user's ability to receive incoming calls is unaffected by the OCB-UC supplementary service.

Barring programs can contain one type of call, or a combination of different types of call. Examples of the different types of call are:

- national calls;
- international calls;
- special services (e.g. Premium rate services).

NOTE: Service providers may permit calls to numbers having special significance (e.g. emergency services) regardless of the active barring program. These numbers are outside the scope of the present document.

Outgoing calls from the served user's termination shall be barred according to the barring program which is active at the served user's access or ISDN number, and the associated basic service for the call.

Unauthorized use of the OCB-UC supplementary service is protected by the use of PINs. The management of PINs is outside the scope of the present document.

5 Procedures

5.1 Provision and withdrawal

The OCB-UC supplementary service shall be provided after prior arrangement with the service provider. A PIN shall be assigned on provision of the OCB-UC supplementary service.

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

The number of barring programs available, and the definition of each barring program is a service provider option.

The OCB-UC 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 OCB-UC supplementary service shall apply.

The service provider shall define the number of barring programs (maximum 256) and shall define the contents of each barring program (e.g. types of call) available for the OCB-UC supplementary service.

Normally, only one barring program shall be activated at a time for each basic service. As a service provider option, more than one barring program may be active at a time for each basic service.

As a service provider option, when the OCB-UC supplementary service is provided on a per ISDN number basis, and more than one ISDN number is allocated to the served user's access, the served user can be given the capability to indicate whether activation or deactivation applies to an indicated number or to all ISDN numbers on the access.

The OCB-UC supplementary service shall be withdrawn by the service provider upon request of the subscriber, or for service provider reasons.

5.2 Normal procedures

5.2.1 Registration and erasure

Not applicable.

5.2.2 Activation and deactivation

5.2.2.1 Activation

The served user shall supply the following information when requesting the activation of the OCB-UC supplementary service:

- the barring program;
- the served user's PIN; and
- information as to whether the activation of the OCB-UC supplementary service is for all basic services to which the OCB-UC supplementary service applies, or for a specific basic service out of the basic services to which the OCB-UC supplementary service applies.

When subscription applies on a per ISDN number basis and more than one ISDN number is allocated to the access, then:

- the served user shall also supply the ISDN number for which the activation of the OCB-UC supplementary service shall apply (In this case the served user shall provide the PIN belonging to the indicated ISDN number);
or
- as a service provider option, the served user may, if this option is subscribed to, indicate that the activation of the OCB-UC supplementary service shall apply for all ISDN numbers for which the OCB-UC supplementary service is subscribed to. If only one barring program is allowed to be active per ISDN number, this activation shall replace any previous activation of the OCB-UC supplementary service which may be in force on individual ISDN numbers on the access, for the basic services indicated at activation. If more than one barring program is allowed to be active per ISDN number, this activation shall not replace any previous activation of the OCB-UC supplementary service which may be in force on individual ISDN numbers on the access, for the basic services indicated at activation.

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, or indicates that the activation of the OCB-UC supplementary service shall apply to all ISDN numbers (if this functionality is offered by the service provider and subscribed to by the served user) then the ISDN number, or the indication of all ISDN numbers, shall be ignored. Activation of the OCB-UC supplementary service shall proceed as normal.

The served user can separately activate the OCB-UC supplementary service for each basic service to which the OCB-UC supplementary service applies and thereby request a different barring program for each basic service to which the OCB-UC supplementary service applies.

If only one barring program is allowed to be active per basic service, when the OCB-UC supplementary service is activated for all basic services, this activation shall replace any previous activation of the OCB-UC supplementary service which may be in force on individual basic services.

If more than one barring program is allowed to be active per basic service, when the OCB-UC supplementary service is activated for all basic services, this activation shall not replace any previous activation of the OCB-UC supplementary service which may be in force on individual basic services.

If the served user has only one barring program available, then the indication of a barring program can be omitted when requesting the activation of the OCB-UC supplementary service.

When the served user's request to activate the OCB-UC supplementary service is accepted, the network shall inform the served user. The information shall include the barring program and the basic service (or all basic services). All affected users shall be informed.

Calls originated prior to the activation of the OCB-UC supplementary service shall not be affected.

5.2.2.2 Deactivation

The OCB-UC supplementary service can be deactivated in any of the following ways:

- the served user can request the deactivation of the OCB-UC supplementary service for individual basic services. The service provider shall inform the served user that the previous activation of the OCB-UC supplementary service has been deactivated. All affected users shall be informed;
- the served user can request the deactivation of the OCB-UC supplementary service for all basic services. The service provider shall inform the served user that the previous activation of the OCB-UC supplementary service has been deactivated. All affected users shall be informed;
- if only one barring program is allowed to be active per basic service, the served user may request the activation of the OCB-UC supplementary service indicating a basic service for which the OCB-UC supplementary service has already been activated. This shall replace the previous information registered for that basic service. In this case, users shall not be specifically informed of the deactivation. The procedures of sub-clause 5.2.2.1 for informing the served user apply;
- if only one barring program is allowed to be active per basic service, the served user may request the activation of the OCB-UC supplementary service for all basic services. This shall replace the information registered for all of the basic services for which the OCB-UC supplementary service has already been activated. In this case, users shall not be specifically informed of the deactivation. The procedures of sub-clause 5.2.2.1 for informing the served user apply.

When subscription applies on a per ISDN number basis and more than one ISDN number is allocated to the access, then:

- the served user shall also supply the ISDN number for which the deactivation of the OCB-UC supplementary service shall apply (In this case the served user shall provide the PIN belonging to the indicated ISDN number);
or
- as a service provider option, the served user may, if this option is subscribed to, indicate that the deactivation of the OCB-UC supplementary service shall apply for all ISDN numbers for which the OCB-UC supplementary service is subscribed to.

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, or indicates that the deactivation of the OCB-UC supplementary service shall apply to all ISDN numbers (if this functionality is offered by the service provider and subscribed to by the served user) then the ISDN number, or the indication of all ISDN numbers, shall be ignored. Deactivation of the OCB-UC supplementary service shall proceed as normal.

The served user shall supply the PIN when requesting the deactivation of the OCB-UC supplementary service.

The OCB-UC supplementary service shall be deactivated on withdrawal.

5.2.3 Invocation and operation

When the OCB-UC supplementary service has been activated, the type of call originated by the served user shall be checked with respect to the active barring program(s).

If this check indicates that the call shall be barred, then the call attempt shall be rejected. The served user shall be informed that the call was rejected due to outgoing call barring. This response shall be the same as the response for the OCB-F supplementary service.

If this check indicates that the call shall not be barred, then the call shall proceed as for the basic call procedures.

5.2.4 Disabling

As a service provider option the user by using an appropriate procedure shall be able per call to make outgoing calls barred by the OCB-UC supplementary service without restrictions. After such a call the OCB-UC supplementary service shall remain active. The disabling procedure shall include a PIN.

5.2.5 Interrogation

The served user can interrogate the service provider in order to determine the status of the OCB-UC supplementary service. Interrogation can be done for the whole access, or on a per ISDN number basis. As a service provider option, the served user may, if this option is subscribed to, interrogate for all ISDN numbers. The served user can request that the information is provided for all basic services, or for the basic service indicated.

In response to interrogation for a single basic service, the served user shall be given an indication of whether the OCB-UC supplementary service is currently activated, and if it is currently activated, the associated barring program(s).

In response to interrogation for all basic services, the served user shall be given either an indication that the OCB-UC supplementary service is not currently activated, or a list of basic services for which the OCB-UC supplementary service has been activated together with the associated barring program(s).

No PIN is required in the interrogation request. If a PIN is provided, it shall be ignored.

5.3 Exceptional procedures

5.3.1 Registration and erasure

Not applicable.

5.3.2 Activation and deactivation

5.3.2.1 Activation

If a request for the activation of the OCB-UC supplementary service cannot be accepted, the user shall receive a notification that the activation of the OCB-UC supplementary service was unsuccessful.

Possible reasons for rejection are:

- the OCB-UC supplementary service is not subscribed to;
- invalid barring program, e.g. the identified barring program is not subscribed to;
- incorrect PIN;
- basic service not subscribed to;
- invalid ISDN number.

5.3.2.2 Deactivation

If a request for the deactivation of the OCB-UC supplementary service cannot be accepted, the user shall receive a notification that the deactivation of the OCB-UC supplementary service was unsuccessful.

Possible reasons for rejection are:

- the OCB-UC supplementary service is not subscribed to;
- incorrect PIN;
- the OCB-UC supplementary service is not activated;
- basic service not subscribed to;
- invalid ISDN number.

5.3.3 Invocation and operation

Not applicable.

5.3.4 Disabling

If a request for disabling the OCB-UC supplementary service cannot be accepted, the user shall receive a notification that the disabling was unsuccessful.

Possible reasons for rejection are:

- the disabling function is not supported;
- incorrect PIN.

5.3.5 Interrogation

If a request for the interrogation of the OCB-UC supplementary service cannot be accepted, the user shall receive a notification that the interrogation of the OCB-UC supplementary service was unsuccessful.

Possible reasons for rejection are:

- the OCB-UC supplementary service is not subscribed to;
- basic service not subscribed to;
- invalid ISDN number.

6 Interworking requirements

6.1 Interworking with non-ISDNs

No additional requirements besides normal basic call.

6.2 Interworking with private networks

The OCB-UC supplementary service can be provided to a private ISDN.

Interworking with private ISDNs shall include the requirements given in ETS 300 345 [5].

7 Interaction with ISDN supplementary services

7.1 Advice of charge

7.1.1 Advice of charge at call set-up

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

7.1.2 Advice of charge during the call

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

7.1.3 Advice of charge at the end of a call

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

7.2 Call waiting

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

7.3 Call hold

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

7.4 Explicit call transfer

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

7.5 Number identification services

7.5.1 Calling line identification presentation

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

7.5.2 Calling line identification restriction

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

7.5.3 Connected line identification presentation

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

7.5.4 Connected line identification restriction

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

7.6 Closed user group

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

NOTE: Both the OCB-UC supplementary service restrictions and the closed user group supplementary service restrictions shall be met.

7.7 Call completion services

7.7.1 Completion of calls to busy subscriber

When the OCB-UC supplementary service is activated after the served user activates the CCBS supplementary service, the CCBS call shall be treated as a normal call.

7.7.2 Completion of calls on no reply

When the OCB-UC supplementary service is activated after the served user activates the CCNR supplementary service, the CCNR call shall be treated as a normal call.

7.8 Conference services

7.8.1 Conference call, add-on

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

7.8.2 Conference call, meet-me

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

7.9 Direct dialling in

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

7.10 Diversion services

7.10.1 Call forwarding unconditional

If the OCB-UC supplementary service has already been activated, a request to activate the call forwarding unconditional supplementary service shall be rejected if the served user's call to the forwarded-to user would be barred by the OCB-UC supplementary service.

If the call forwarding unconditional supplementary service was activated before the activation of the OCB-UC supplementary service, the call forwarding unconditional supplementary service shall not be affected.

7.10.2 Call forwarding busy

If the OCB-UC supplementary service has already been activated, a request to activate the call forwarding busy supplementary service shall be rejected if the served user's call to the forwarded-to user would be barred by the OCB-UC supplementary service.

If the call forwarding busy supplementary service was activated before the activation of the OCB-UC supplementary service, the call forwarding busy supplementary service shall not be affected.

7.10.3 Call forwarding no reply

If the OCB-UC supplementary service has already been activated, a request to activate the call forwarding no reply supplementary service shall be rejected if the served user's call to the forwarded-to user would be barred by the OCB-UC supplementary service.

If the call forwarding no reply supplementary service was activated before the activation of the OCB-UC supplementary service, the call forwarding no reply supplementary service shall not be affected.

7.10.4 Call deflection

If the OCB-UC supplementary service has been activated, a request to invoke the call deflection supplementary service shall be rejected if the served user's call to the deflected-to user would be barred by the OCB-UC supplementary service.

7.10.5 Selective call forwarding

If the selective call forwarding supplementary service has been activated and the OCB-UC supplementary service has been activated the following shall apply:

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

7.11 Freephone

It shall be possible to bar a call to a Freephone number.

7.12 Malicious call identification

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

7.13 Multiple subscriber number

The OCB-UC supplementary service applying to the user indicated by the "number of the calling user" in the outgoing call, shall be used to determine whether the outgoing call can be set up. The network cannot guarantee that outgoing calls are restricted beyond applying the restrictions for the indicated "number of the calling user". If no "number of the calling user" is indicated when making the outgoing call, or the "number of the calling user" is not known at the served user's access, then the outgoing call shall be barred according to the active barring program (if any) belonging to the default ISDN number of the served user's access.

7.14 Subaddressing

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

7.15 Terminal portability

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

7.16 Three party

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

7.17 User-to-user signalling

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

7.18 In-call modification

The OCB-UC supplementary service shall take precedence over the in-call modification supplementary service.

7.19 Hunting services

7.19.1 Line hunting

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

7.19.2 Trunk hunting

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

7.20 Support of private numbering plans

The served user shall have the possibility to have one active barring program that is applied when placing a PNP call, and another active barring program that is applied when placing an ISDN call.

7.21 Call barring services

7.21.1 Outgoing call barring-fixed

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

NOTE: When placing an outgoing call both the OCB-F barring program and the OCB-UC barring program shall be applied (if active).

7.21.2 Outgoing call barring-user controlled

Not applicable.

8 Interactions with other services

8.1 Universal access number

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

8.2 Virtual card calling

Calls using the service access code to the virtual card calling service, may be barred by the OCB-UC supplementary service.

Once the user gains access to the virtual card calling service, then the OCB-UC supplementary service shall be overridden by the virtual card calling service.

8.3 Premium rate

It shall be possible to bar a call to a Premium rate number.

8.4 Televoting

It shall be possible to bar a call to a Televoting number.

8.5 Remote control

The OCB-UC supplementary service may be remotely controlled.

History

Document history		
V1.1.1	September 1998	Publication
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