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8 [[]HJbc`ca fYy`Y`n`]bhY[f]fUb]a]g]cf]hj Ua]f]G8 BŁ!`8 cdc`b]`bY`g]cf]hj Y.`dfYdcj YX]
cX\ cXb] \ `]Wj `fC7 6 Ł!`Dfctc_c`X][]HJbY`bUfc b]y_Y`g][bU]nUWY`Y`yH`r`%fB GG`Ł!`%`
XY.`GdYWZ_UWY`Udfctc_c`U

Integrated Services Digital Network (ISDN); Outgoing Call Barring (OCB) supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification

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**Integrated Services Digital Network (ISDN);
Outgoing Call Barring (OCB) supplementary services;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 1: Protocol specification**



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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS).

The present document is part 1 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) Outgoing Call Barring (OCB) supplementary services, as described below:

Part 1: "Protocol specification";

Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";

Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for the user";

Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user";

Part 5: "Test Suite Structure & Test Purposes (TSS&TP) specification for the network";

Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

In accordance with CCITT Recommendation I.130 [11], the following three level structure is used to describe the supplementary telecommunication services as provided by European public telecommunications operators under the pan-European 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.

The present document details the stage 3 aspects (signalling system protocols and switching functions) needed to support the OCB supplementary services. The stage 1 aspects are detailed in EN 301 082 [7] and EN 301 084 [8]. The stage 2 aspects of the OCB supplementary services have not been specified.

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Date of adoption of this EN:	7 August 1998
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1 Scope

This first part of EN 301 001 specifies the stage three of the OCB supplementary services for the pan-European Integrated Services Digital Network (ISDN) as provided by the European public telecommunications operators at the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [9]) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol. Stage three identifies the protocol procedures and switching functions needed to support a telecommunication service (see CCITT Recommendation I.130 [11]).

In addition, the present document specifies the protocol requirements at the T reference point where the service is provided to the user via an intermediate private ISDN.

The present document does not specify the additional protocol requirements where the service is provided to the user via a telecommunications network that is not an ISDN.

The outgoing call barring supplementary services comprise the following services:

- Outgoing Call Barring-Fixed (OCB-F) supplementary service;
- Outgoing Call Barring-User Controlled (OCB-UC) supplementary service.

The OCB-F supplementary service enables a served user to have the network reject calls belonging to certain types, when they are originated by the served user. The served user's ability to receive calls is unaffected by the OCB-F supplementary service. The OCB-F supplementary service may operate on all calls belonging to certain types, or just on those calls associated with specified basic services. The OCB-F supplementary service operates according to the requirements specified by the served user on provision and cannot be activated or deactivated under the control of the served user.

The OCB-UC supplementary service enables a served user to have the network reject calls belonging to certain types, when they are originated by the served user. The served user's ability to receive calls is unaffected by the OCB-UC supplementary service. The OCB-UC supplementary service may operate on all calls belonging to certain types, or just on those calls associated with specified basic services. The served user can select the barring program(s), activate and later deactivate them.

The OCB supplementary services are applicable to all circuit-switched telecommunications services.

Further parts of the present document specify the method of testing required to identify conformance to the present document.

The present document is applicable to equipment supporting at least one of the OCB supplementary services, to be attached at either side of a T reference point or coincident S and T reference point when used as an access to the public ISDN.

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 X.208 (1988): "Specification of Abstract Syntax Notation One (ASN.1)".
- [2] CCITT Recommendation X.219 (1988): "Remote operations: Model, notation and service definition".
- [3] EN 300 195-1: "Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [4] EN 300 196-1: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [5] EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931, modified]".
- [6] EN 301 002-1 (V1.1): "Integrated Services Digital Network (ISDN); Security tools procedures; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [7] EN 301 082: "Network Aspects (NA); Integrated Services Digital Network (ISDN); Outgoing Call Barring-Fixed (OCB-F) supplementary service; Service description".
- [8] EN 301 084: "Network Aspects (NA); Integrated Services Digital Network (ISDN); Outgoing Call Barring-User Controlled (OCB-UC) supplementary service; Service description".
- [9] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - reference configurations".
- [10] ITU-T Recommendation Z.100 (1993): "CCITT specification and description language (SDL)".

2.2 Informative references

- [11] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [12] ETR 232 (1995): "Security Techniques Advisory Group (STAG); Glossary of security terminology".
- [13] ITU-T Recommendation E.164 (1997): "The international public telecommunication numbering plan".
- [14] ITU-T Recommendation I.112 (1993): "Vocabulary of terms for ISDNs".