

SLOVENSKI STANDARD SIST ETS 300 548 E1:2003

01-december-2003

9 jfcdg_]`X][]hUb]`WY] b]`hY`Y_caib]_UW]/g_]`g]ghYa`fZUnU&上Ë`8 cdc`b]`bU`ghcf]hYj. nUdcfU_`]WYj`f76 とË`Ghcdb/U&f} GA`\$' ", , と

European digital cellular telecommunications system (Phase 2); Call Barring (CB) supplementary services; Stage 2 (GSM 03.88)

iTeh STANDARD PREVIEW (standards.iteh.ai)

Ta slovenski standard je istoveten z: ETS 300 548 E1 2003 Hubs / Standards ich av catalog/standards/sist/4218 1ado-7100-4310-95cb-

8f3eeb9f32bc/sist-ets-300-548-e1-2003

<u>ICS:</u>

33.070.50 Globalni sistem za mobilno telekomunikacijo (GSM)

Global System for Mobile Communication (GSM)

SIST ETS 300 548 E1:2003

en

SIST ETS 300 548 E1:2003

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST ETS 300 548 E1:2003



EUROPEAN TELECOMMUNICATION STANDARD

ETS 300 548

March 1995

Source: ETSI TC-SMG

Reference: DE/SMG-030388P

ICS: 33.060.30

Key words: European digital cellular telecommunications system, Global System for Mobile communications (GSM)

iTeh STANDARD PREVIEW European digital cellular telecommunications system (Phase 2); Call Barring (CB) supplementary services - Stage 2

https://standards.iteh.ai/catalog(GSMsi03f88f)-7fb6-43f0-95cb-8f3eeb9f32bc/sist-ets-300-548-e1-2003

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE **Office address:** 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE **X.400:** c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

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

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 1995. All rights reserved.

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST ETS 300 548 E1:2003 https://standards.iteh.ai/catalog/standards/sist/42f81ad6-7fb6-43f0-95cb-8f3eeb9f32bc/sist-ets-300-548-e1-2003

Whilst every care has been taken in the preparation and publication of this document, errors in content, typographical or otherwise, may occur. If you have comments concerning its accuracy, please write to "ETSI Editing and Committee Support Dept." at the address shown on the title page.

Contents

Fore	word				5
0	General	General			7
	0.1				
	0.2	Normative references			
	0.3	Definitions and abbreviations			
	0.4	Cross-Phase compatibility			
1	Barring of outgoing calls				
	1.1		Handling of barring of outgoing calls		
	1.1	1.1.1			
		1.1.2			
		1.1.2			
				etween barring of outgoing call programs	
				ith call forwarding supplementary services	
		1.1.3			
		1.1.4			
	1.2				
	1.2				
	1.3				
	1.4	Transfer	finformation from HI D to VI D		21
	1.6	Informatio	n stored in the VLP	<u>SEVIEW</u>	. 22 22
	1.0	Handovor	stondards itoh	ai)	. 22 22
	1.7	Transfer of information from HLR to VLR.R.E.V.I.E.W. Information stored in the VLR. Handover			. 22 22
	1.0	1.8.1	MS, MSC, VLR or HLR only s	upport Phase 1 control of SS by the	. 22
		https://sta 1.8.2	subscriber dards lien av catalog/standards/sist/42/8	ating of subscriber information	. 22
		1.8.2	HLR only support Phase 1 upo	ating of subscriber information	. 22
2	Barring of	Barring of incoming calls			. 23
	2.1				
		2.1.1	Registration		. 23
		2.1.2	Activation		. 23
			2.1.2.1 General		. 23
			2.1.2.2 Interactions b	etween barring of incoming call programs	. 23
			2.1.2.3 Interactions w	ith call forwarding supplementary services	. 23
		2.1.3	Deactivation		. 27
		2.1.4	Interrogation		. 28
	2.2	Functions and information flows			
	2.3	Information stored in the HLR			. 32
	2.4	State transition model			-
	2.5	Transfer of information from HLR to VLR			. 33
	2.6	Information stored in the VLR			. 34
	2.7	Handover			. 34
	2.8				. 34
		2.8.1	MS, MSC, VLR or HLR only s	upport Phase 1 control of SS by the	
					. 34
		2.8.2	HLR only supports Phase 1 up	dating of subscriber information	. 34
Hist	าการ				35
					. 50

Blank page

iTeh STANDARD PREVIEW (standards.iteh.ai)

Foreword

This European Telecommunication Standard (ETS) has been produced by the Special Mobile Group (SMG) Technical Committee (TC) of the European Telecommunications Standards Institute (ETSI).

This ETS defines the stage 2 of the Call Barring (CB) supplementary services for the European digital cellular telecommunications system (Phase 2).

This ETS corresponds to GSM Technical Specification (GSM-TS) GSM 03.88 version 4.6.1.

The specification from which this ETS has been derived was originally based on CEPT documentation, hence the presentation of this ETS may not be entirely in accordance with the ETSI/PNE rules.

Reference is made within this ETS to GSM-TSs (NOTE).

NOTE: TC-SMG has produced documents which give the technical specifications for the implementation of the European digital cellular telecommunications system. Historically, these documents have been identified as GSM Technical Specifications (GSM-TSs). These TSs may have subsequently become I-ETSs (Phase 1), or ETSs (Phase 2), whilst others may become ETSI Technical Reports (ETRs). GSM-TSs are, for editorial reasons, still referred to in current GSM ETSs.

iTeh STANDARD PREVIEW (standards.iteh.ai)

Blank page

iTeh STANDARD PREVIEW (standards.iteh.ai)

0 General

0.1 Overview

This specification gives the stage 2 description of the call barring services.

The possibility for a mobile subscriber to have certain categories of calls barred originated from or terminated at his access:

Barring of outgoing calls (section 1):

- Barring of all outgoing calls (BAOC) (Barring program 1);
- Barring of outgoing international calls (BOIC) (Barring program 2);
- Barring of outgoing international calls EXCEPT those directed to the home PLMN country
 - (BOIC-exHC) (Barring program 3).

Barring of incoming calls (section 2):

- Barring of all incoming calls (BAIC) (Barring program 1);
- Barring of incoming calls when roaming outside the home PLMN country (BIC-Roam) (Barring program 2).
 - NOTE: The call barring program "incoming calls when roaming outside the home PLMN country" (section 2) is only relevant if as a general rule the called mobile subscriber pays the charges for the forwarded part of the call from his home PLMN country to any other country.

Teh STANDARD PREVIEW

0.2 Normative references

(standards.iteh.ai) This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

- [1] GSM 01.04 (ETR 100): "European digital cellular telecommunications system (Phase 2); "Abbreviations and acronyms".
- [2] GSM 02.82 (ETS 300 515): "European digital cellular telecommunications system (Phase 2); Call Forwarding (CF) supplementary services Stage 1".
- [3] GSM 03.11 (ETS 300 529): "European digital cellular telecommunications system (Phase 2); Technical realization of supplementary services".

0.3 Definitions and abbreviations

Abbreviations used in this specification are listed in GSM 01.04.

0.4 Cross-Phase compatibility

For the following supplementary services, a number of changes exist between this specification and the Phase 1 specification:

- Barring of outgoing calls;
- Barring of incoming calls.

The main body of this specification assumes that all network entities comply with this version of the service. In each case an additional sub-section (sections 1.6 and 2.6) defines the additional requirements

Page 8 ETS 300 548: March 1995 (GSM 03.88 version 4.6.1)

for when one or more network entities or the MS complies with the Phase 1 specifications for the supplementary service procedures.

1 Barring of outgoing calls

1.1 Handling of barring of outgoing calls

1.1.1 Registration

If the served mobile subscriber at provision time has selected the subscription option "control of barring services by subscriber using password", he has to register a password at provision time. Furthermore the served mobile subscriber can change the password by an appropriate control procedure at any time. The control procedure consists of three steps: first, the old password has to be provided. Secondly, the new password has to be given, after which it has to be verified by providing it once more, see TS GSM 03.11.

If the served mobile subscriber at provision time has selected the subscription option "control of barring services by the service provider" an attempt to register a password will be denied and the served mobile subscriber should receive a notification.

The subscriber can register a new password, thus causing the previous registration to be overridden, see TS GSM 03.11.

1.1.2 Activation

1.1.2.1 General

If the served mobile subscriber at provision time has selected the subscription option "control of barring services by subscriber using password" the supplementary service is activated if the subscriber provides the following information to the network: (**Standards.iten.al**)

1) password;

SIST ETS 300 548 E1:2003

- 2) information as to whether the activation applies to all basic services or a specific basic service group;
- 3) selected barring program.

Activation can take place with an appropriate control procedure by the subscriber.

If the served mobile subscriber at provision time has selected the subscription option "control of barring services by the service provider", the supplementary service cannot be activated by the subscriber. The activation has to be performed by the service provider. An attempt to activate the service will be denied and the served mobile subscriber should receive a notification.

If the served mobile subscriber at provision time has selected the subscription option "control of barring services by subscriber using password", and if a wrong password is entered to activate the service the supplementary service will not be activated and the served mobile subscriber is notified.

The information flow for activation of barring of outgoing calls is shown in figure 1.4. For more details see TS GSM 03.11.

1.1.2.2 Interactions between barring of outgoing call programs

In case the served mobile subscriber activates barring of outgoing international calls except those directed to the home PLMN country and this service is not supported by the PLMN in which the served mobile subscriber currently roams, the VPLMN will activate barring of outgoing international calls instead. The SDL diagram in figure 1.1 shows the function to be performed in the VLR in order to deal with this interaction. This function is performed upon receiving the "insert subscriber data" message from the HLR.

In case the mobile subscriber activates one of the call barring programs and another call barring program was already activated, this program will be deactivated and the requested call barring program will be activated. The SDL diagram in figure 1.2 shows the function to be performed in the HLR in order to deal with this interaction between call barring programs.

1.1.2.3 Interactions with call forwarding supplementary services

For interactions with call forwarding supplementary services see TS GSM 02.82.

The SDL diagram in figure 1.3 shows the function to be performed in the HLR in order to deal with the interactions with call forwarding supplementary services.

iTeh STANDARD PREVIEW (standards.iteh.ai)

Page 10 ETS 300 548: March 1995 (GSM 03.88 version 4.6.1)

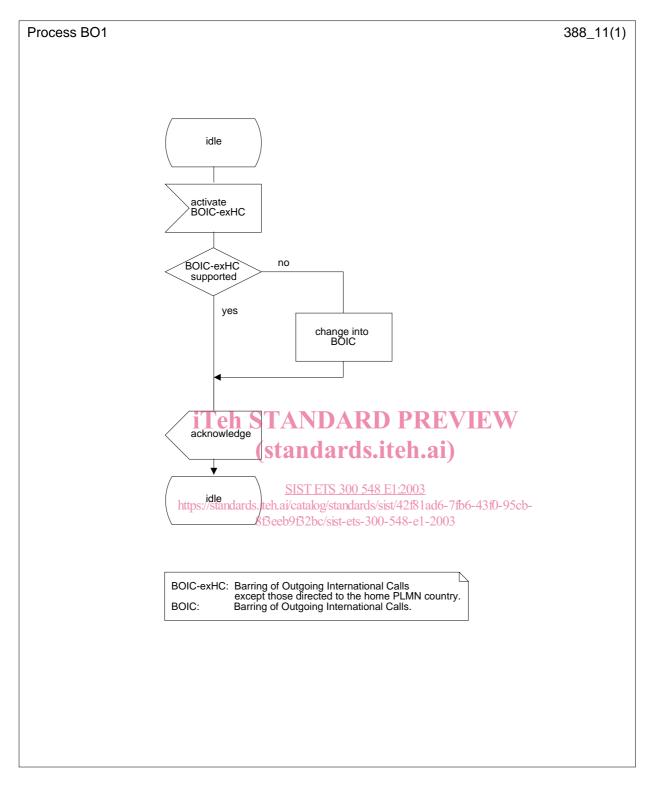


Figure 1.1: BO1 Possible change of barring of outgoing international calls except those directed to the home PLMN country into barring of outgoing international calls