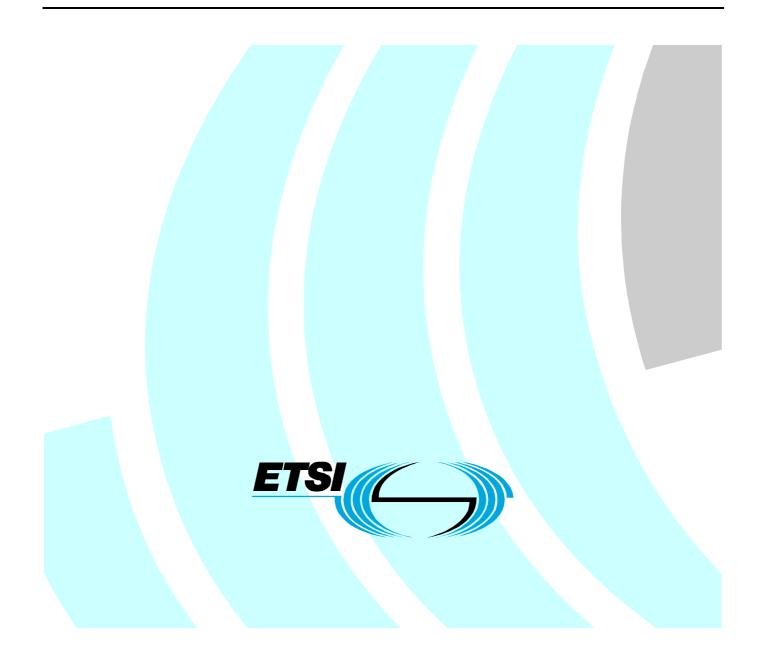
# ETSI EN 300 392-10-18 V1.3.1 (2003-10)

European Standard (Telecommunications series)

Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 10: Supplementary services stage 1; Sub-part 18: Barring of Outgoing Calls (BOC)



Reference

2

REN/TETRA-03095

Keywords

call barring, data, radio, speech, stage 1, supplementary service, TETRA

#### ETSI

#### 650 Route des Lucioles F-06921 Sophia Antipolis Cedex - 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

#### Important notice

Individual copies of the present document can be downloaded from: http://www.etsi.org

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at http://portal.etsi.org/tb/status/status.asp

> If you find errors in the present document, send your comment to: editor@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 2003. All rights reserved.

**DECT**<sup>TM</sup>, **PLUGTESTS**<sup>TM</sup> and **UMTS**<sup>TM</sup> are Trade Marks of ETSI registered for the benefit of its Members. **TIPHON**<sup>TM</sup> and the **TIPHON logo** are Trade Marks currently being registered by ETSI for the benefit of its Members. **3GPP**<sup>TM</sup> is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

## Contents

Foreword     5       1     Scope     7       2     References     7       3     Definitions and abbreviations     7       3.1     Definitions     7       3.2     Abbreviations     7       3.2     Abbreviations     8       4.1     SS-BOC stage 1 specification     8       4.1.1     General description     8       4.1.2     Qualifications on applicability to telecommunication services     9       4.2.1     Provedures     9       4.2.2     Normal procedures     9       4.2.2.1     Activation, dencitvation, definition, registration, interrogation and cancellation     9       4.2.2.1     Definition     9     4       4.2.2.1     Definition     9       4.2.2.1.3     Registration     9       4.2.2.1     Definition     9       4.2.2.1     Cancotaliation definition, registration, interrogation and cancellation     00       4.2.3.1     Activation, dencitivation, definition, registration     10       4.2.3.1     Activation, dencitivation definit	Intelle	ectual Property Rights	5
2   References   7     3   Definitions and abbreviations   7     3.1   Definitions   7     3.2   Abbreviations   8     4   SS-BOC stage 1 specification   8     4.1   Description   8     4.1   Description   8     4.1.2   Qualifications on applicability to telecommunication services.   9     4.2.1   Provision/Withdrawal   9     4.2.1   Provision, deactivation, definition, registration, interrogation and cancellation.   9     4.2.2.1   Activation, deactivation, definition, registration, interrogation and cancellation.   9     4.2.2.1.1   Activation, deactivation.   9   9     4.2.2.1.2   Definition.   9   9     4.2.2.1.3   Registration   9   9     4.2.3.1   Activation, deactivation, definition, registration, interrogation and cancellation.   10     4.2.3.1.4   Intercogation   9   4     4.2.3.1.4   Intercogation   10     4.2.3.1.4   Intercogation   10     4.2.3.1.5   Cancellation   10     4.	Forew	/ord	5
3   Definitions and abbreviations   7     3.1   Definitions   7     3.2   Abbreviations   8     4   SS-BOC stage 1 specification   8     4.1   Description   8     4.1.1   General description   8     4.1.2   Qualifications on applicability to telecommunication services   9     4.2.1   Procedures   9     4.2.2   Normal procedures.   9     4.2.2.1   Activation, descrivation, definition, registration, interrogation and cancellation   9     4.2.2.1.3   Registration   9     4.2.2.1.4   Interrogation   9     4.2.2.1.5   Cancellation   9     4.2.2.1.4   Interrogation   9     4.2.3.1   Activation, deactivation, definition, registration, interrogation and cancellation   10     4.2.3.1   Carceptional procedures   10   14.2.3.1     4.2.3.1   Activation Deactivation   10     4.2.3.1   Activation descrivation   10     4.2.3.1   Activation descrivation   10     4.2.3.1   Activation descrivation   10	1	Scope	7
3.1   Definitions   7     3.2   Abbreviations   8     4   SS-BOC stage 1 specification   8     4.1   Description   8     4.1.1   General description   8     4.1.2   Qualifications on applicability to telecommunication services   9     4.2.1   Procedures   9     4.2.1   Provision/Withdrawal   9     4.2.2   Normal procedures   9     4.2.1   Activation, deactivation, registration, interrogation and cancellation   9     4.2.1.1   Activation/Deactivation   9     4.2.2.1.2   Definition   9     4.2.2.1.3   Registration   9     4.2.2.1.4   Interogation   9     4.2.2.1.5   Cancellation   9     4.2.3.1   Activation, deactivation, definition, registration, interogation and cancellation   10     4.2.3.1   Activation, destivation, definition, registration and cancellation   10     4.2.3.1.1   Activation, deactivation, definition, registration, interogation and cancellation   10     4.2.3.1.2   Longation   10   12.3.1.1     4.2.3.1.4	2	References	7
3.2   Abbreviations   8     4   SS-BOC stage 1 specification   8     4.1   General description   8     4.1.1   General description   8     4.1.2   Qualifications on applicability to telecommunication services.   9     4.2   Procedures   9     4.2.1   Provision/Withdrawal   9     4.2.2   Normal procedures.   9     4.2.1   Activation, deactivation, definition, registration, interrogation and cancellation   9     4.2.2.1.2   Definition   9     4.2.2.1.3   Registration   9     4.2.2.1.4   Interrogation   9     4.2.2.1.5   Cancellation   9     4.2.2.1.4   Interrogation   9     4.2.3.1   Activation, deactivation, definition, registration, interrogation and cancellation   10     4.2.3.1.1   Activation/Deactivation   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.1.6   Cancel	3	Definitions and abbreviations	7
4     SS-BOC stage 1 specification     8       4.1     Description     8       4.1.1     General description     8       4.1.2     Qualifications on applicability to telecommunication services.     9       4.2     Procedures     9       4.2.1     Provision/Withdrawal     9       4.2.2     Normal procedures     9       4.2.2.1     Activation, deactivation, registration, interrogation and cancellation     9       4.2.2.1.1     Activation/Deactivation     9       4.2.2.1.2     Definition     9       4.2.2.1.3     Registration     9       4.2.2.4     Interrogation     9       4.2.3.1     Activation, deactivation, definition, registration, interrogation and cancellation     9       4.2.3.1     Activation, deactivation, definition, registration, and cancellation     10       4.2.3.1     Activation, deactivation, definition, registration, and cancellation     10       4.2.3.1     Activation, decativation     10       4.2.3.1     Activation, decativation, definition, registration, interrogation and cancellation     10       4.2.3.1.4     Intercocativ	3.1		
4.1   Description   8     4.1.1   General description   8     4.1.2   Qualifications on applicability to telecommunication services.   9     4.2.1   Provision/Withdrawal   9     4.2.1   Provision/Withdrawal   9     4.2.1   Activation, deactivation, definition, registration, interrogation and cancellation.   9     4.2.1   Activation/Deactivation   9     4.2.1.1   Activation/Deactivation   9     4.2.2.1.2   Definition.   9     4.2.2.1.3   Registration   9     4.2.2.1.4   Interrogation   9     4.2.2.1.5   Cancellation   9     4.2.3.1   Activation/deactivation, definition, registration, interrogation and cancellation   10     4.2.3.1   Activation/Deactivation   10     4.2.3.1.1   Activation/Deactivation   10     4.2.3.1.3   Registration   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Canceted Line Identification Restriction (CLP)   11     4.3.1   Calling/Connected Line Identification Restriction (CDLP)   11     4.3.2   C	3.2	Abbreviations	8
4.1   Description   8     4.1.1   General description   8     4.1.2   Qualifications on applicability to telecommunication services.   9     4.2.1   Provision/Withdrawal   9     4.2.1   Provision/Withdrawal   9     4.2.1   Activation, deactivation, definition, registration, interrogation and cancellation.   9     4.2.1   Activation/Deactivation   9     4.2.1.1   Activation/Deactivation   9     4.2.2.1.2   Definition.   9     4.2.2.1.3   Registration   9     4.2.2.1.4   Interrogation   9     4.2.2.1.5   Cancellation   9     4.2.3.1   Activation/deactivation, definition, registration, interrogation and cancellation   10     4.2.3.1   Activation/Deactivation   10     4.2.3.1.1   Activation/Deactivation   10     4.2.3.1.3   Registration   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Canceted Line Identification Restriction (CLP)   11     4.3.1   Calling/Connected Line Identification Restriction (CDLP)   11     4.3.2   C	4	SS-BOC stage 1 specification	8
4.1.1   General description   8     4.1.2   Qualifications on applicability to telecommunication services.   9     4.2   Provision/Withdrawal   9     4.2.1   Provision/Withdrawal   9     4.2.1   Normal procedures.   9     4.2.1   Activation/Deactivation, definition, registration, interrogation and cancellation.   9     4.2.2.1.1   Activation/Deactivation   9     4.2.2.1.2   Definition.   9     4.2.2.1.3   Registration   9     4.2.2.1.4   Interrogation   9     4.2.2.1.5   Cancellation   9     4.2.2.1   Definition, decitivation, definition, registration, interrogation and cancellation   10     4.2.3.1   Activation/Deactivation   10     4.2.3.1.3   Registration   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.1.4   Interrogation   10     4.2.3.1   Cancellation   10     4.2.3.1.5   Cancellation   10     4.2.3.1   Invocation and operation   10     4.2.3			
4.12   Qualifications on applicability to telecommunication services.   9     4.2   Procedures   9     4.2.1   Provision/Withdrawal   9     4.2.2   Normal procedures.   9     4.2.2.1   Activation, deactivation, definition, registration, interrogation and cancellation.   9     4.2.2.1.1   Activation/Deactivation   9     4.2.2.1.2   Definition.   9     4.2.2.1.3   Registration   9     4.2.2.1.4   Interrogation   9     4.2.2.2   Invocation and operation.   9     4.2.3.1   Activation, deactivation, definition, registration, interrogation and cancellation.   10     4.2.3.1   Activation/Deactivation, definition, registration, interrogation and cancellation.   10     4.2.3.1.1   Activation/Deactivation   10   10     4.2.3.1.2   Definition.   10   10     4.2.3.1.3   Registration   10   10     4.2.3.1.4   Interrogation   10   10     4.2.3.1.5   Cancellation   10   10     4.2.3.1   Invocation and operation.   10   10     4.2.	4.1.1	•	
42     Procedures     9       4.2.1     Provision/Withdrawal     9       4.2.1     Normal procedures     9       4.2.2     Normal procedures     9       4.2.2.1     Activation, deactivation, definition, registration, interrogation and cancellation     9       4.2.2.1.2     Definition     9       4.2.2.1.3     Registration     9       4.2.2.1.4     Interrogation     9       4.2.2.1.5     Cancellation     9       4.2.2.1.4     Interrogation     9       4.2.2.1     Exceptional procedures     10       4.2.3.1     Activation/Deactivation     9       4.2.3.1     Activation/Deactivation     10       4.2.3.1.3     Registration     10       4.2.3.1.4     Interrogation     10       4.2.3.1     Cancellation     10       4.2.3.1     Invocation and operation.     10       4.2.3.1     Interactions with other supplementary services.     11       4.3.1     Callelation Presentation (CLP).     11       4.3.2     Invovaration on poeration.	4.1.2		
4.2.2.1   Normal procedures   9     4.2.2.1.1   Activation, decativation, negistration, interrogation and cancellation   9     4.2.2.1.2   Definition   9     4.2.2.1.3   Registration   9     4.2.2.1.4   Interrogation   9     4.2.2.1.5   Cancellation   9     4.2.2.1   Invocation and operation   9     4.2.2.1   Invocation and operation   9     4.2.2.1   Cancellation   9     4.2.2.1   Invocation and operation   9     4.2.3.1   Activation, decativation, definition, registration, interrogation and cancellation   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.1   Interactions with other supplementary services   11     4.3   Interactions with other supplementary services   11     4.3.1   Calling/Connected Line Identification Presentation (COLP)   11	4.2		
4.2.2.1   Activation, deactivation, registration, interrogation and cancellation.   9     4.2.2.1.2   Definition.   9     4.2.2.1.3   Registration   9     4.2.2.1.4   Interrogation   9     4.2.2.1.5   Cancellation   9     4.2.2.1.6   Cancellation   9     4.2.2.1.7   Cancellation   9     4.2.2.1.8   Interrogation   9     4.2.2.1   Invocation and operation.   9     4.2.2.1   Invocation and operation.   9     4.2.3.1   Activation/Deactivation, registration, interrogation and cancellation   10     4.2.3.1.1   Activation/Deactivation.   10     4.2.3.1.3   Registration   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.1.6   Cancellation Restriction (CLIR).   11     4.2.3.1   Calling Line Identification Restriction (CLIP).   11     4.3.1   Calling Connected Line Identification Presentation (CCLP).   11     4.3.4   Calling Connected Line Identification Presentation (COLP).   11     4.3.5   Talking P	4.2.1	Provision/Withdrawal	9
4.2.2.1.1   Activation/Deactivation   9     4.2.2.1.3   Definition   9     4.2.2.1.3   Registration   9     4.2.2.1.4   Interrogation   9     4.2.2.1.5   Cancellation   9     4.2.2.1   Interrogation   9     4.2.2.1   Invocation and operation   9     4.2.2.1   Invocation and operation   9     4.2.3.1   Activation/deactivation, definition, registration, interrogation and cancellation   10     4.2.3.1.1   Activation/Deactivation   10     4.2.3.1.3   Registration   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.1   Activation and operation   10     4.2.3.1.4   Interrogation   10     4.2.3.1   Introcation and operation   10     4.2.3.1   Cancellation Restriction (CLIP)   11     4.3.1   Calling Line Identification Presentation (COLP)   11     4.3.1   Calling/COnnected Line Identification Presentation (COLP)   11     4.3.4   Call Report (CR)   11     4.3.	4.2.2		
4.2.2.1.2   Definition   9     4.2.2.1.4   Interrogation   9     4.2.2.1.5   Cancellation   9     4.2.2.1   Invocation and operation   9     4.2.2.2   Invocation and operation   9     4.2.3   Exceptional procedures   10     4.2.3.1   Activation, deactivation, definition, registration, interrogation and cancellation   10     4.2.3.1.1   Activation/Deactivation   10     4.2.3.1.3   Registration   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.1.4   Interrogation   10     4.2.3.2   Invocation and operation   10     4.2.3.2   Invocation and operation (CLIP)   11     4.3.1   Calling Line Identification Presentation (CLP)   11     4.3.2   Connected Line Identification Presentation (COLP)   11     4.3.4   Call Report (CR)   11     4.3.5   Talking Party Identification (PEP)   11     4.3.6   Call Forwarding on Not Reachable (CPNR)   11     4.3.7   Call Forwarding on Not Reachable (CPNR)   <	4.2.2.1		
4.2.2.1.3   Registration   9     4.2.2.1.5   Cancellation   9     4.2.2.1.5   Cancellation   9     4.2.2.2   Invocation and operation   9     4.2.3.1   Exceptional procedures.   10     4.2.3.1   Activation, deactivation, definition, registration, interrogation and cancellation   10     4.2.3.1   Activation/Deactivation   10     4.2.3.1.1   Activation/Deactivation   10     4.2.3.1.2   Definition.   10     4.2.3.1.3   Registration   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.1   Invocation and operation   10     4.2.3.1   Calling Line Identification Presentation (CLIP)   11     4.3.1   Calling Connected Line Identification Presentation (COLP)   11     4.3.3   Calling/Connected Line Identification Presentation (COLP)   11     4.3.4   Call Roport (CR)   11     4.3.5   Talking Party Identification (CFP)   11     4.3.6   Call Forwarding on No Reply (CFNRy)   11     4.3.10   List Search Call (	4.2.2.1		
4.2.2.1.4   Interrogation   9     4.2.2.1.5   Cancellation   9     4.2.2.2   Invocation and operation   9     4.2.3   Exceptional procedures   10     4.2.3.1   Activation, deactivation, definition, registration, interrogation and cancellation   10     4.2.3.1.1   Activation/Deactivation   10     4.2.3.1.2   Definition   10     4.2.3.1.3   Registration   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.1   Interrogation   10     4.2.3.1.4   Interrogation   10     4.2.3.1   Cancellation   10     4.2.3.1   Interrogation   10     4.2.3.1   Cancellation Restriction (CLIR)   11     4.3.1   Calling/Connected Line Identification Presentation (COLP)   11     4.3.3   Calling/Connected Line Identification Presentation (COLP)   11     4.3.4   Call Forwarding on No Reply (CFNRy)   11     4.3.5   Taking Party Identification (CFU)   11     4.3.6   Call Forwarding on No Reply (CFNRy)   11			
4.2.2.1.5   Cancellation   9     4.2.2.2   Invocation and operation   9     4.2.3   Exceptional procedures   10     4.2.3.1   Activation, deactivation, definition, registration, interrogation and cancellation   10     4.2.3.1.1   Activation/Deactivation   10     4.2.3.1.2   Definition   10     4.2.3.1.3   Registration   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.1   Interactions with other supplementary services   11     4.3.1   Calling Line Identification Restriction (CLIP)   11     4.3.2   Connected Line Identification Presentation (COLP)   11     4.3.4   Call Report (CR)   11     4.3.5   Talking Party Identification (TPI)   11     4.3.6   Call Forwarding Unconditional (CFU)   11     4.3.7   Call Forwarding on No Rept/ (CFNRy)   11     4.3.8   Call Forwarding on No Rept/ (CFNRy)   11     4.3.10   List Search Call (LS			
4.2.2.2   Invocation and operation   9     4.2.3   Exceptional procedures   10     4.2.3.1   Activation, deactivation, efinition, registration, interrogation and cancellation   10     4.2.3.1.1   Activation/Deactivation, medicivation   10     4.2.3.1.2   Definition   10     4.2.3.1.3   Registration   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.2   Invocation and operation   10     4.2.3.1   Cancellation   10     4.2.3.2   Invocation and operation   10     4.2.3.2   Invocation and operation   10     4.3.3   Calling Line Identification Restriction (CLIR)   11     4.3.4   Calling Connected Line Identification Presentation (COLP)   11     4.3.4   Call Report (CR)   11     4.3.5   Talking Party Identification (PFI)   11     4.3.6   Call Forwarding on Not Reachable (CFNRc)   11     4.3.7   Call Forwarding on Not Reachable (CFNRc)   11     4.3.8   Call Forwarding on Not Reachable (CFNRc)   11     4.3.10 <td></td> <td></td> <td></td>			
4.2.3   Exceptional procedures.   10     4.2.3.1   Activation, deactivation, definition, registration, interrogation and cancellation.   10     4.2.3.1.1   Activation/Dactivation.   10     4.2.3.1.2   Definition.   10     4.2.3.1.3   Registration   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.2   Invocation and operation.   10     4.2.3.2   Invocation and operation (CLIR).   11     4.3.1   Calling Line Identification Presentation (CLIP).   11     4.3.2   Connected Line Identification Presentation (COLP).   11     4.3.3   Calling/COnnected Line Identification Presentation (COLP).   11     4.3.4   Call Report (CR).   11     4.3.5   Talking Party Identification (TPI)   11     4.3.6   Call Forwarding on No Reply (CFNRy).   11     4.3.7   Call Forwarding on No Reply (CFNRy).   11     4.3.10   List Search Call (LSC).   11     4.3.11   Call Authorized by Dispatcher (CAD).   12     4.3.13   Area Selection (AS).   12 <tr< td=""><td></td><td></td><td></td></tr<>			
4.2.3.1   Activation, deactivation, registration, interrogation and cancellation.   10     4.2.3.1.1   Activation/Deactivation.   10     4.2.3.1.2   Definition.   10     4.2.3.1.3   Registration   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation.   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation.   10     4.2.3.1   Interrogation and operation.   10     4.2.3.2   Invocation and operation.   10     4.3.1   Calling Line Identification Restriction (CLIR).   11     4.3.1   Calling/COnnected Line Identification Presentation (COLP)   11     4.3.3   Call Report (CR).   11     4.3.4   Call Forwarding Unconditional (CFU)   11     4.3.5   Talking Party Identification (TFPI)   11     4.3.6   Call Forwarding on Not Reachable (CFNRc).   11     4.3.7   Call Forwarding on Not Reachable (CFNRc).   11     4.3.10   List Search Call (LSC).   11     4.3.11   Call Forwarding on Not Reachable (CFNRc).   11     4.3.13			
4.2.3.1.1   Activation/Deactivation			
4.2.3.1.2   Definition   10     4.2.3.1.3   Registration   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.1.6   Invocation and operation   10     4.2.3.1   Interactions with other supplementary services.   11     4.3.1   Calling Line Identification Restriction (CLIP)   11     4.3.2   Connected Line Identification Presentation (CLIP)   11     4.3.3   Calling/Connected Line Identification Presentation (COLP)   11     4.3.4   Call Report (CR)   11     4.3.5   Talking Party Identification (TPI)   11     4.3.6   Call Forwarding Unconditional (CFU)   11     4.3.7   Call Forwarding on No Reply (CFNRy)   11     4.3.8   Call Forwarding on No Reply (CFNRc)   11     4.3.9   Call Forwarding on No Reply (CFNRy)   11     4.3.10   List Search Call (LSC)   11     4.3.11   Call Forwarding on No Reply (CFNRc)   11     4.3.12   Short Number Addressing (SNA)   11     4.3.13   Aree Selection (AS)   12     4.3.14			
4.2.3.1.3   Registration   10     4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.1   Invocation and operation   10     4.2.3.2   Invocation and operation   10     4.3   Interactions with other supplementary services   11     4.3.1   Calling Line Identification Restriction (CLIR)   11     4.3.2   Connected Line Identification Presentation (COLP)   11     4.3.3   Calling/COnnected Line Identification Presentation (COLP)   11     4.3.4   Call Report (CR)   11     4.3.5   Talking Party Identification (TPI)   11     4.3.6   Call Forwarding Unconditional (CFU)   11     4.3.7   Call Forwarding on Nox Reply (CFNRy)   11     4.3.8   Call Forwarding on Nox Reachable (CFNRc)   11     4.3.9   Call Forwarding on Nox Reachable (CFNRc)   11     4.3.10   List Search Call (LSC)   11     4.3.11   Call Authorized by Dispatcher (CAD)   11     4.3.12   Short Number Addressing (SNA)   12     4.3.13   Arcess Priority (AP)   12     4			
4.2.3.1.4   Interrogation   10     4.2.3.1.5   Cancellation   10     4.2.3.2   Invocation and operation   10     4.3.1   Interactions with other supplementary services   11     4.3.1   Calling Line Identification Restriction (CLIR)   11     4.3.2   Connected Line Identification Presentation (CLIP)   11     4.3.3   Calling/Connected Line Identification Presentation (COLP)   11     4.3.4   Call Report (CR)   11     4.3.5   Talking Party Identification (PFI)   11     4.3.6   Call Forwarding Unconditional (CFU)   11     4.3.7   Call Forwarding on No Reply (CFNRy)   11     4.3.8   Call Forwarding on No Reply (CFNRy)   11     4.3.10   List Search Call (LSC)   11     4.3.11   Call Authorized by Dispatcher (CAD)   11     4.3.12   Short Number Addressing (SNA)   11     4.3.15   Priority Call (PC)   12     4.3.16   Call Hold (HOLD)   12     4.3.17   Call Hold (HOLD)   12     4.3.19   Late Entry (LE)   12     4.3.20   Void   <			
4.2.3.1.5   Cancellation   10     4.2.3.2   Invocation and operation   10     4.3   Interactions with other supplementary services   11     4.3.1   Calling Line Identification Restriction (CLIR)   11     4.3.2   Connected Line Identification Presentation (CLIP)   11     4.3.3   Calling/COnnected Line Identification Presentation (COLP)   11     4.3.4   Call Report (CR)   11     4.3.5   Talking Party Identification (TPI)   11     4.3.6   Call Forwarding Unconditional (CFU)   11     4.3.7   Call Forwarding on Busy (CFB)   11     4.3.8   Call Forwarding on No Reply (CFNRc)   11     4.3.9   Call Forwarding on Not Reachable (CFNRc)   11     4.3.10   List Search Call (LSC)   11     4.3.11   Call Authorized by Dispatcher (CAD)   11     4.3.13   Area Selection (AS)   12     4.3.14   Access Priority (AP)   12     4.3.15   Priority Call (PC)   12     4.3.16   Call Waiting (CW)   12     4.3.17   Call Hold (HOLD)   12     4.3.18   Call C			
4.2.3.2Invocation and operation104.3Interactions with other supplementary services114.3.1Calling Line Identification Restriction (CLIR)114.3.2Connected Line Identification Presentation (CLIP)114.3.3Calling/COnnected Line Identification Presentation (COLP)114.3.4Call Report (CR)114.3.5Talking Party Identification (TPI)114.3.6Call Forwarding Unconditional (CFU)114.3.7Call Forwarding on Busy (CFB)114.3.8Call Forwarding on No Reply (CFNRy)114.3.9Call Forwarding on No Reply (CFNRy)114.3.10List Search Call (LSC)114.3.11Call Authorized by Dispatcher (CAD)114.3.12Short Number Addressing (SNA)114.3.15Priority Call (PC)124.3.16Call Waiting (CW)124.3.17Call Mold (HOLD)124.3.19Late Entry (LE)124.3.20Void124.3.20Void124.3.21Pre-emptive Priority Call (PPC)124.3.22Include Call (IC)124.3.23Void12			
4.3Interactions with other supplementary services114.3.1Calling Line Identification Restriction (CLIR)114.3.2Connected Line Identification Presentation (COLP)114.3.3Calling/Connected Line Identification Presentation (COLP)114.3.4Call Report (CR)114.3.5Talking Party Identification (TPI)114.3.6Call Forwarding Unconditional (CFU)114.3.7Call Forwarding on Busy (CFB)114.3.8Call Forwarding on No Reply (CFNRy)114.3.9Call Forwarding on Not Reachable (CFNRc)114.3.10List Search Call (LSC)114.3.11Call Authorized by Dispatcher (CAD)114.3.12Short Number Addressing (SNA)114.3.13Area Selection (AS)124.3.14Access Priority (AP)124.3.15Priority Call (PC)124.3.18Call Completion to Busy Subscriber (CCBS)124.3.20Void124.3.21Pre-emptive Priority Call (PC)124.3.22Include Call (IC)124.3.23Void12			
4.3.1Calling Line Identification Restriction (CLIR)114.3.2Connected Line Identification Presentation (COLP)114.3.3Calling/COnnected Line Identification Presentation (COLP)114.3.4Call Report (CR)114.3.5Talking Party Identification (TPI)114.3.6Call Forwarding Unconditional (CFU)114.3.7Call Forwarding on Busy (CFB)114.3.8Call Forwarding on No Reply (CFNRy)114.3.9Call Forwarding on No Reply (CFNRc)114.3.10List Search Call (LSC)114.3.11Call Authorized by Dispatcher (CAD)114.3.12Short Number Addressing (SNA)114.3.13Area Selection (AS)124.3.14Access Priority (AP)124.3.17Call Hold (HOLD)124.3.18Call Completion to Busy Subscriber (CCBS)124.3.20Void124.3.21Pre-emptive Priority Call (PC)124.3.22Include Call (IC)124.3.23Void12			
4.3.2   Connected Line Identification Presentation (CLIP)   11     4.3.3   Calling/COnnected Line Identification Presentation (COLP)   11     4.3.4   Call Report (CR)   11     4.3.5   Talking Party Identification (TPI)   11     4.3.6   Call Forwarding Unconditional (CFU)   11     4.3.7   Call Forwarding on Busy (CFB)   11     4.3.8   Call Forwarding on Not Reply (CFNRy)   11     4.3.9   Call Forwarding on Not Reachable (CFNRc)   11     4.3.10   List Search Call (LSC)   11     4.3.11   Call Authorized by Dispatcher (CAD)   11     4.3.12   Short Number Addressing (SNA)   11     4.3.13   Area Selection (AS)   12     4.3.14   Access Priority (AP)   12     4.3.15   Priority Call (PC)   12     4.3.18   Call Completion to Busy Subscriber (CCBS)   12     4.3.20   Void   12     4.3.21   Pre-emptive Priority Call (PPC)   12     4.3.22   Void   12     4.3.23   Void   12			
4.3.3   Calling/COnnected Line Identification Presentation (COLP)   11     4.3.4   Call Report (CR)   11     4.3.5   Talking Party Identification (TPI)   11     4.3.6   Call Forwarding Unconditional (CFU)   11     4.3.7   Call Forwarding on Busy (CFB)   11     4.3.8   Call Forwarding on No Reply (CFNRy)   11     4.3.9   Call Forwarding on Not Reachable (CFNRc)   11     4.3.10   List Search Call (LSC)   11     4.3.11   Call Authorized by Dispatcher (CAD)   11     4.3.12   Short Number Addressing (SNA)   11     4.3.13   Area Selection (AS)   12     4.3.14   Access Priority (AP)   12     4.3.15   Priority Call (PC)   12     4.3.17   Call Hold (HOLD)   12     4.3.18   Call Completion to Busy Subscriber (CCBS)   12     4.3.20   Void   12     4.3.21   Pre-emptive Priority Call (PC)   12     4.3.22   Include Call (IC)   12     4.3.23   Void   12	4.3.2		
4.3.4   Call Report (CR)	4.3.3	Calling/COnnected Line Identification Presentation (COLP)	11
4.3.6   Call Forwarding Unconditional (CFU)   11     4.3.7   Call Forwarding on Busy (CFB)   11     4.3.8   Call Forwarding on No Reply (CFNRy)   11     4.3.9   Call Forwarding on Not Reachable (CFNRc)   11     4.3.10   List Search Call (LSC)   11     4.3.11   Call Authorized by Dispatcher (CAD)   11     4.3.12   Short Number Addressing (SNA)   11     4.3.13   Area Selection (AS)   12     4.3.14   Access Priority (AP)   12     4.3.15   Priority Call (PC)   12     4.3.16   Call Waiting (CW)   12     4.3.17   Call Hold (HOLD)   12     4.3.18   Call Completion to Busy Subscriber (CCBS)   12     4.3.20   Void   12     4.3.21   Pre-emptive Priority Call (PPC)   12     4.3.22   Include Call (IC)   12     4.3.23   Void   12	4.3.4		
4.3.7   Call Forwarding on Busy (CFB)   11     4.3.8   Call Forwarding on No Reply (CFNRy)   11     4.3.9   Call Forwarding on Not Reachable (CFNRc)   11     4.3.10   List Search Call (LSC)   11     4.3.11   Call Authorized by Dispatcher (CAD)   11     4.3.12   Short Number Addressing (SNA)   11     4.3.13   Area Selection (AS)   12     4.3.14   Access Priority (AP)   12     4.3.15   Priority Call (PC)   12     4.3.17   Call Hold (HOLD)   12     4.3.18   Call Completion to Busy Subscriber (CCBS)   12     4.3.20   Void   12     4.3.21   Pre-emptive Priority Call (PC)   12     4.3.22   Include Call (IC)   12     4.3.23   Void   12	4.3.5	Talking Party Identification (TPI)	11
4.3.8   Call Forwarding on No Reply (CFNRy).   11     4.3.9   Call Forwarding on Not Reachable (CFNRc).   11     4.3.10   List Search Call (LSC).   11     4.3.11   Call Authorized by Dispatcher (CAD).   11     4.3.12   Short Number Addressing (SNA).   11     4.3.13   Area Selection (AS).   12     4.3.14   Access Priority (AP).   12     4.3.15   Priority Call (PC).   12     4.3.16   Call Waiting (CW).   12     4.3.17   Call Hold (HOLD).   12     4.3.18   Call Completion to Busy Subscriber (CCBS).   12     4.3.20   Void   12     4.3.21   Pre-emptive Priority Call (PPC).   12     4.3.22   Include Call (IC).   12     4.3.23   Void   12	4.3.6		
4.3.9   Call Forwarding on Not Reachable (CFNRc)			
4.3.10   List Search Call (LSC)   11     4.3.11   Call Authorized by Dispatcher (CAD)   11     4.3.12   Short Number Addressing (SNA)   11     4.3.13   Area Selection (AS)   12     4.3.14   Access Priority (AP)   12     4.3.15   Priority Call (PC)   12     4.3.16   Call Waiting (CW)   12     4.3.17   Call Hold (HOLD)   12     4.3.19   Late Entry (LE)   12     4.3.20   Void   12     4.3.21   Pre-emptive Priority Call (PPC)   12     4.3.22   Include Call (IC)   12     4.3.23   Void   12			
4.3.11   Call Authorized by Dispatcher (CAD).   11     4.3.12   Short Number Addressing (SNA).   11     4.3.13   Area Selection (AS).   12     4.3.14   Access Priority (AP).   12     4.3.15   Priority Call (PC).   12     4.3.16   Call Waiting (CW).   12     4.3.17   Call Hold (HOLD).   12     4.3.18   Call Completion to Busy Subscriber (CCBS).   12     4.3.20   Void   12     4.3.21   Pre-emptive Priority Call (PPC)   12     4.3.22   Include Call (IC).   12     4.3.23   Void   12		e e	
4.3.12   Short Number Addressing (SNA)   11     4.3.13   Area Selection (AS)   12     4.3.14   Access Priority (AP)   12     4.3.15   Priority Call (PC)   12     4.3.16   Call Waiting (CW)   12     4.3.17   Call Hold (HOLD)   12     4.3.18   Call Completion to Busy Subscriber (CCBS)   12     4.3.20   Void   12     4.3.21   Pre-emptive Priority Call (PPC)   12     4.3.22   Include Call (IC)   12     4.3.23   Void   12			
4.3.13   Area Selection (AS)   12     4.3.14   Access Priority (AP)   12     4.3.15   Priority Call (PC)   12     4.3.16   Call Waiting (CW)   12     4.3.17   Call Hold (HOLD)   12     4.3.18   Call Completion to Busy Subscriber (CCBS)   12     4.3.20   Void   12     4.3.21   Pre-emptive Priority Call (PPC)   12     4.3.22   Include Call (IC)   12     4.3.23   Void   12			
4.3.14   Access Priority (AP)   12     4.3.15   Priority Call (PC)   12     4.3.16   Call Waiting (CW)   12     4.3.17   Call Hold (HOLD)   12     4.3.18   Call Completion to Busy Subscriber (CCBS)   12     4.3.19   Late Entry (LE)   12     4.3.20   Void   12     4.3.21   Pre-emptive Priority Call (PPC)   12     4.3.22   Include Call (IC)   12     4.3.23   Void   12			
4.3.15   Priority Call (PC)   12     4.3.16   Call Waiting (CW)   12     4.3.17   Call Hold (HOLD)   12     4.3.18   Call Completion to Busy Subscriber (CCBS)   12     4.3.19   Late Entry (LE)   12     4.3.20   Void   12     4.3.21   Pre-emptive Priority Call (PPC)   12     4.3.22   Include Call (IC)   12     4.3.23   Void   12			
4.3.16   Call Waiting (CW)			
4.3.17   Call Hold (HOLD)   12     4.3.18   Call Completion to Busy Subscriber (CCBS)   12     4.3.19   Late Entry (LE)   12     4.3.20   Void   12     4.3.21   Pre-emptive Priority Call (PPC)   12     4.3.22   Include Call (IC)   12     4.3.23   Void   12			
4.3.18   Call Completion to Busy Subscriber (CCBS)			
4.3.19   Late Entry (LE)   12     4.3.20   Void   12     4.3.21   Pre-emptive Priority Call (PPC)   12     4.3.22   Include Call (IC)   12     4.3.23   Void   12			
4.3.20   Void   12     4.3.21   Pre-emptive Priority Call (PPC)   12     4.3.22   Include Call (IC)   12     4.3.23   Void   12			
4.3.21   Pre-emptive Priority Call (PPC)   12     4.3.22   Include Call (IC)   12     4.3.23   Void   12			
4.3.22   Include Call (IC)   12     4.3.23   Void   12			
4.3.23 Void			
	4.3.23		
	4.3.24	Barring of Outgoing Calls (BOC)	12

4.3.25	Barring of Incoming Calls (BIC)	12
4.3.26	Discreet Listening (DL)	
4.3.27	Ambience Listening (AL)	13
4.3.28	Dynamic Group Number Assignment (DGNA)	13
4.3.29	Call Completion on No Reply (CCNR)	13
4.3.30	Call ReTention (CRT) priority	13
4.4	Interworking considerations	13
4.5	Overall SDL	14
Annex A	(informative): Bibliography	15
Annex B	(informative): Change Requests	16
History		17

## 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 ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://webapp.etsi.org/IPR/home.asp).

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 ETSI 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 Project Terrestrial Trunked Radio (TETRA).

The present document is part 10, sub-part 18 of a multi-part deliverable covering Voice plus Data (V+D), as identified below:

EN 300 392-1: "General 1		network design";
EN 300 392-2:	"Air Inter	face (AI)";
EN 300 392-3:	"Interwor	king at the Inter-System Interface (ISI)";
ETS 300 392-4:	"Gateway	s basic operation";
EN 300 392-5:	"Peripher	al Equipment Interface (PEI)";
EN 300 392-7:	"Security	",
EN 300 392-9:	"General	requirements for supplementary services";
EN 300 392-10:	''Suppler	nentary services stage 1";
EN 300 39	2-10-1:	"Call Identification (CI)";
ETS 300 3	92-10-2:	"Call report";
ETS 300 3	92-10-3:	"Talking Party Identification (TPI)";
EN 300 39	2-10-4:	"Call Forwarding (CF)";
ETS 300 3	92-10-5:	"List Search Call (LSC)";
EN 300 39	2-10-6:	"Call Authorized by Dispatcher (CAD)";
ETS 300 3	92-10-7:	"Short number addressing";
EN 300 39	2-10-8:	"Area Selection (AS)";
ETS 300 3	92-10-9:	"Access priority";
EN 300 39	2-10-10:	"Priority Call (PC)";
EN 300 39	2-10-11:	"Call Waiting (CW)";
EN 300 39	2-10-12:	"Call Hold (CH)";
ETS 300 3	92-10-13:	"Call completion to busy subscriber";
EN 300 39	2-10-14:	"Late Entry (LE)";

- ETS 300 392-10-15: "Transfer of control";
- EN 300 392-10-16: "Pre-emptive Priority Call (PC)";
- EN 300 392-10-17: "Include Call (IC)";
- EN 300 392-10-18: "Barring of Outgoing Calls (BOC)";
- EN 300 392-10-19: "Barring of Incoming Calls (BIC)";
- ETS 300 392-10-20: "Discreet Listening (DL)";
- EN 300 392-10-21: "Ambience Listening (AL)";
- EN 300 392-10-22: "Dynamic Group Number Assignment (DGNA)";
- ETS 300 392-10-23: "Call completion on no reply";
- ETS 300 392-10-24: "Call Retention (CRT)";
- EN 300 392-11: "Supplementary services stage 2";
- EN 300 392-12: "Supplementary services stage 3";
- ETS 300 392-13: "SDL model of the Air Interface (AI)";
- ETS 300 392-14: "Protocol Implementation Conformance Statement (PICS) proforma specification";
- TS 100 392-15: "TETRA frequency bands, duplex spacings and channel numbering";
- TS 100 392-16: "Network Performance Metrics";
- TS 100 392-17: "TETRA V+D and DMO Release 1.1 specifications".

National transposition dates			
Date of adoption of this EN:	3 October 2003		
Date of latest announcement of this EN (doa):	31 January 2004		
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 July 2004		
Date of withdrawal of any conflicting National Standard (dow):	31 July 2004		

## 1 Scope

The present document defines the stage 1 specification of the Barring of Outgoing Call (BOC) supplementary service for the Trans-European Trunked Radio (TETRA). Stage 1 is an overall service description from the users point of view but does not deal with the details of the human interface itself.

7

The present document specifies the service description of the supplementary service and the procedures to be expected with successful and unsuccessful outcomes. In addition, the present document specifies the interactions with other TETRA supplementary services and interworking considerations.

Charging principles are outside the scope of the present document.

The Barring of Outgoing Call (BOC) supplementary service enables barring restriction for outgoing calls to be set.

## 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 and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <a href="http://docbox.etsi.org/Reference">http://docbox.etsi.org/Reference</a>.

- [1] ITU-T Recommendation Z.100: "Specification and Description Language (SDL)".
- [2] ETSI EN 300 392-10-4: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 10: Supplementary services stage 1; Sub-part 4: Call Forwarding (CF)".

## 3 Definitions and abbreviations

## 3.1 Definitions

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

affected user: user whose outgoing service or services are barred

authorized user: user who is permitted to bar outgoing calls of defined users

**bearer service:** type of telecommunication service that provides the capability for the transmission of signals between user-network interfaces

Switching and Management Infrastructure (SwMI): all of the TETRA equipment for a Voice plus Data (V+D) network except for subscriber terminals

NOTE: The SwMI enables subscriber terminals to communicate with each other via the SwMI.

**teleservice:** type of telecommunications service that provides the complete capability, including terminal equipment functions, for communication between users according to agreed protocols

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

A T	
AL	Ambience Listening
AP	Access Priority
AS	Area Selection
BIC	Barring of Incoming Calls
BOC	Barring of Outgoing Calls
CAD	Call Authorized by Dispatcher
CCBS	Call Completion to Busy Subscriber
CCNR	Call Completion on No Reply
CFB	Call Forwarding on Busy
CFNRc	Call Forwarding on Not Reachable
CFNRy	Call Forwarding on No Reply
CFU	Call Forwarding Unconditional
CLIP	Calling Line Identification Presentation
CLIR	Calling/Connected Line Identification Restriction
COLP	COnnected Line identification Presentation
CR	Call Report
CRT	Call ReTention
CW	Call Waiting
DGNA	Dynamic Group Number Assignment
DL	Discreet Listening
GTSI	Group TETRA Subscriber Identity
HOLD	call HOLD
IC	Include Call
ISDN	Integrated Services Digital Network
ITSI	Individual TETRA Subscriber Identity
LE	Late Entry
LSC	List Search Call
PC	Priority Call
PPC	Pre-emptive Priority Call
SDL	(functional) Specification and Description Language
SDS	Short Data Service
SNA	Short Number Addressing
SS	Supplementary Service
NOTE:	The abbreviation SS is only used when referring to a specific supplementary service.
0.17	
SwMI	Switching and Management Infrastructure
TETRA	Trans-European Trunked RAdio
TPI	Talking Party Identification

## 4 SS-BOC stage 1 specification

## 4.1 Description

### 4.1.1 General description

Barring of Outgoing Calls (BOC) is the facility whereby certain outgoing calls shall be barred. The barring can be set up and altered by the service provider. The authorized user may set and remove barring of the affected users.

The barring of outgoing calls is defined as ranges of barred numbers. Barring can be excluded for closed user groups and individual numbers inside the barred ranges of numbers as exceptions.

These ranges and exceptions may be applied independently to each service: circuit mode speech service, circuit mode data service and Short Data Service (SDS).

The service provider may define certain numbers such as "emergency numbers" to remain outside of barring although they are within barred ranges of numbers.

### 4.1.2 Qualifications on applicability to telecommunication services

Barring of outgoing call may be applicable independently to all TETRA teleservices, bearer services and short data services.

## 4.2 Procedures

### 4.2.1 Provision/Withdrawal

This service shall be provided by prior arrangement to affected users by the service provider.

The provision of the service shall be on a per TETRA Individual TETRA Subscriber Identity (ITSI)/Group TETRA Subscriber Identity (GTSI) basis. The authorized user(s) and served users shall be defined upon provision.

The service provider may withdraw this service at any time without a prior announcement.

#### 4.2.2 Normal procedures

#### 4.2.2.1 Activation, deactivation, definition, registration, interrogation and cancellation

#### 4.2.2.1.1 Activation/Deactivation

The authorized user may activate or deactivate the supplementary service by definition process. This service may be permanently activated upon provision and deactivated upon withdrawal.

#### 4.2.2.1.2 Definition

The authorized user may be able to set and remove barring for those affected users defined upon provision.

#### 4.2.2.1.3 Registration

The authorized users shall be registered upon provision.

#### 4.2.2.1.4 Interrogation

The Switching and Management Infrastructure (SwMI) may support interrogation for authorized users on the same affected users as the authorized user is allowed to use definition of barring. If interrogation is provided, SwMI shall support interrogation per affected user number.

#### 4.2.2.1.5 Cancellation

Shall not be applicable.

#### 4.2.2.2 Invocation and operation

This service shall be invoked by the TETRA system when the served user attempts to set up a call to a barred number. The served user shall receive an indication of barring and the call shall be rejected.

NOTE: The ability of the served user to receive calls is not affected by SS-BOC and he may receive call from numbers he is not allowed to call.

## 4.2.3 Exceptional procedures

## 4.2.3.1 Activation, deactivation, definition, registration, interrogation and cancellation

10

### 4.2.3.1.1 Activation/Deactivation

Activation and deactivation is performed upon definition and there no additional exceptional procedures for activation nor deactivation.

### 4.2.3.1.2 Definition

If the infrastructure cannot accept a definition request then the cause shall be returned to the requesting user.

Possible causes may be:

- request failed for any reason;
- accepted, but definition values changed by SwMI;
- user not authorized;
- unknown TETRA identity;
- parameters not valid; or
- insufficient information.

## 4.2.3.1.3 Registration

Shall not be applicable.

### 4.2.3.1.4 Interrogation

If the SwMI cannot accept an interrogation request, the interrogating user shall receive a notification that a BOC interrogation was unsuccessful. Possible causes for rejection may be:

- request failed for any reason;
- accepted, but definition values changed by SwMI;
- user not authorized;
- unknown TETRA identity;
- parameters not valid; or
- insufficient information.

## 4.2.3.1.5 Cancellation

Shall not be applicable.

## 4.2.3.2 Invocation and operation

If the infrastructure cannot invoke the service, and no cause shall be returned to the calling nor served user.

## 4.3 Interactions with other supplementary services

## 4.3.1 Calling Line Identification Restriction (CLIR)

Not applicable as the call set-up is barred.

## 4.3.2 Connected Line Identification Presentation (CLIP)

Barring of outgoing calls shall not have any interaction with SS-CLIP.

## 4.3.3 Calling/COnnected Line Identification Presentation (COLP)

Barring of outgoing calls shall not have any interaction with SS-COLP.

## 4.3.4 Call Report (CR)

Barring of outgoing calls shall not have any interaction with SS-CR. A user cannot invoke CR on a call which is barred.

## 4.3.5 Talking Party Identification (TPI)

Barring of outgoing calls shall not have any interaction with SS-TPI.

## 4.3.6 Call Forwarding Unconditional (CFU)

SS-BOC takes precedence to SS-CFU and both SS-BOC and SS-CFU cannot be activated at the same time to the same user, refer to EN 300 392-10-4 [2].

## 4.3.7 Call Forwarding on Busy (CFB)

SS-BOC takes precedence to SS-CFB and both SS-BOC and SS-CFB cannot be activated at the same time to the same user, refer to EN 300 392-10-4 [2].

## 4.3.8 Call Forwarding on No Reply (CFNRy)

SS-BOC takes precedence to SS-CFNRy and both SS-BOC and SS-CFNRy cannot be activated at the same time to the same user, refer to EN 300 392-10-4 [2].

## 4.3.9 Call Forwarding on Not Reachable (CFNRc)

SS-BOC takes precedence to SS-CFNRc and both SS-BOC and SS-CFNRc cannot be activated at the same time to the same user, refer to EN 300 392-10-4 [2].

## 4.3.10 List Search Call (LSC)

Barring of outgoing calls shall not have any interaction with SS-LSC. Barring of (attendants) of the search list shall not be checked. The list itself may be a barred address.

## 4.3.11 Call Authorized by Dispatcher (CAD)

Barring of outgoing calls shall not have any interaction with SS-CAD. If both CAD and BOC are activated on the required service then the CAD shall take precedence. The dispatcher number may be a barred number.

## 4.3.12 Short Number Addressing (SNA)

Barring of outgoing calls shall not have any interaction with SS-SNA. SS-SNA-2 may override SS-BOC.

### 4.3.13 Area Selection (AS)

BOC shall take precedence over SS-AS.

#### 4.3.14 Access Priority (AP)

Barring of outgoing calls shall not have any interaction with SS-AP.

### 4.3.15 Priority Call (PC)

Barring of outgoing calls shall not have any interaction with SS-PC. The priority calls may be also barred.

#### 4.3.16 Call Waiting (CW)

Barring of outgoing calls shall not have any interaction with SS-CW.

### 4.3.17 Call Hold (HOLD)

Barring of outgoing calls shall not have any interaction with SS-HOLD. The affected user's call to a barred address shall not proceed.

## 4.3.18 Call Completion to Busy Subscriber (CCBS)

Barring of outgoing calls shall not have any interaction with SS-CCBS. The barred call never proceeds to a state where call completion could be invoked.

### 4.3.19 Late Entry (LE)

Not applicable.

#### 4.3.20 Void

### 4.3.21 Pre-emptive Priority Call (PPC)

Barring of outgoing calls shall not have any interaction with SS-PPC. Pre-emptive priority calls may also be barred.

#### 4.3.22 Include Call (IC)

Barring of outgoing calls shall not have any interaction with SS-IC. The affected user's inclusion of a barred destination shall not proceed.

#### 4.3.23 Void

## 4.3.24 Barring of Outgoing Calls (BOC)

Not applicable.

#### 4.3.25 Barring of Incoming Calls (BIC)

Barring of outgoing calls shall not have any interaction with barring of incoming calls.

#### 4.3.26 Discreet Listening (DL)

Barring of outgoing calls shall not have any interaction with SS-DL. DL cannot proceed to a barred address.

## 4.3.27 Ambience Listening (AL)

Barring of outgoing calls shall not have any interaction with SS-AL. AL cannot proceed to a barred address.

## 4.3.28 Dynamic Group Number Assignment (DGNA)

Barring of outgoing calls shall not have any interaction with SS-DGNA.

## 4.3.29 Call Completion on No Reply (CCNR)

Barring of outgoing calls shall not have any interaction with SS-CCNR. The barred call never proceeds to a state where call completion could be invoked.

13

## 4.3.30 Call ReTention (CRT) priority

Barring of outgoing calls shall not have any interaction with SS-CRT priority. The barred call never proceeds to a state where call retention would operate.

## 4.4 Interworking considerations

The barring of outgoing calls may be available upon service provider agreement across the intersystem interface.

## 4.5 Overall SDL

Figure 1 contains the dynamic description of SS-BOC using the Specification and Description Language (SDL) defined in ITU-T Recommendation Z.100 [1]. The SDL process represents the behaviour of the network in providing SS-BOC.

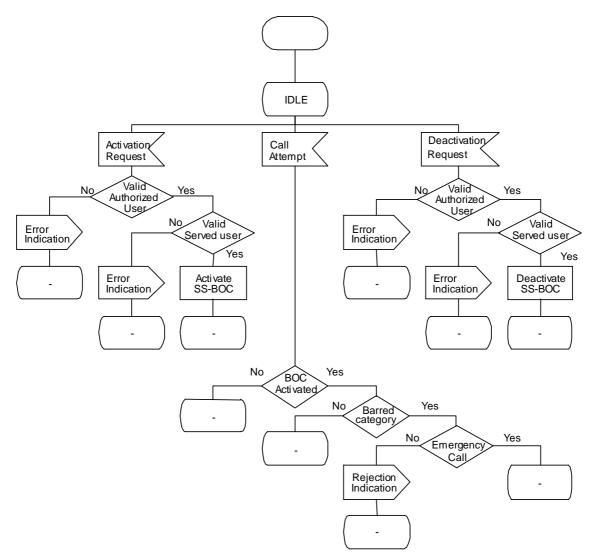


Figure 1: BB-BOC overview SDL

## Annex A (informative): Bibliography

ITU-T Recommendation I.130: "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".

## Annex B (informative): Change Requests

The present version of the present document contains change requests as described in table B.1.

#### Table B.1: Change requests

No	CR version	Standard version	Clauses affected	Title	CR Status
001	10	V1.2.1	- ,,	Correction of editorial errors in interactions with SS-CF	WG3 approved 030409

## History

Document history			
Edition 1 April 1996		Publication as ETS 300 392-10-18	
V1.2.1 September 2002		Publication	
V1.3.0	June 2003	One-step Approval Procedure	DAP 20031003: 2003-06-04 to 2003-10-03
V1.3.1	October 2003	Publication	