3GPP TSG_CN#7 NP-000025

ETSI SMG3 Plenary Meeting #7, Madrid, Spain

13th - 15th March 2000

Agenda item: 5.4.3

Source: TSG_N SS ad hoc

Title: CRs to 3G Work Item CAMEL phase 3

Introduction:

This document contains "2" CRs on **CAMEL phase 3**, that have been agreed by **TSG_N SS ad hoc**, and are forwarded to **TSG_N Plenary** meeting #7 for approval.

Tdoc	Spec	CR	Rev	Cat	Rel	Old ver	New ver	Subject
NS-000049	23.082	003	3	С	R99	3.1.0	3.2.0	Introduction of 'Notification to CSE flag' to CF
NS-000050	23.088	001	3	С	R99	3.1.0	3.2.0	Introduction of 'Notification to CSE flag' to CB

3GPP TSG CN SS AD HOC Sophia Antipolis, France, 17-18 February 2000 Document NS-000049 (revised NS-000004)						
		CHANGE F	REQUES	Please see ember page for instruction		e at the bottom of this of fill in this form correctly.
		23.082	CR 003	Curre	ent Version	n: 3.1.0
GSM (AA.BB) or 3	G (AA.BBB) specifi	cation number [↑]	,	CR number as allocate	ed by MCC su	pport team
For submission	meeting # here ↑	for ap for infor version 2 for 3GPP and SMG			strateg on-strateg	
Proposed change affects: (U)SIM ME UTRAN / Radio Core Network X (at least one should be marked with an X)						Core Network X
Source:	SS ad hoc				Date:	11 Feb. 2000
Subject:		2-003r3 on introduct ntary service.	tion of 'Notifica	tion to CSE flag'	to the cal	I forwarding
Work item:	CAMEL P	nase3				
(only one category shall be marked (Addition of Functional	nds to a correction i				Phase 2 Release 96 Release 97 Release 98 Release 99 X Release 00
In CAMEL data, which by gsmSCF MAP_Any		phase3, it is required is stored in the HLR that is, gsmSCF can Time_Modification bove, the 'notification	I that the change , is notified to the activate and de operation, which	of the call forward be gsmSCF(s). And activate the notification is newly introduced	ding suppled the notification to the	cation is controlled e CSE by using on. For the reason
Clauses affecte	ed: 0.6 (n	ew)				
Other specs affected:		ecifications	$\begin{array}{c} \rightarrow \text{ List} \\ \rightarrow \text{ List} \\ \rightarrow \text{ List} \end{array}$	of CRs: 23.078 of CRs: of CRs: of CRs: of CRs:	3, 23.008,	23.088, 29.002
 Other comments: In the N2A, it was agreed to consider following things as working assumptions. (N2-to-comments: The 'notification to CSE flag' is not sent to the VLR, considering the impact on the process. As to the gsmSCF which is notified the change of the CF data, HLR has the pre-digsmSCF(s) list per supplementary service. 					ct on the existing	



0 Scope

The present document gives the stage 2 description of the call forwarding supplementary services.

The group of supplementary services call offering supplementary services is divided into 4 different supplementary services:

-	Call forwarding unconditional	(CFU)	(clause 1);
-	Call forwarding on mobile subscriber busy	(CFB)	(clause 2);
-	Call forwarding on no reply	(CFNRy)	(clause 3);
-	Call forwarding on mobile subscriber not reachable	(CFNRc)	(clause 4).

0.1 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]	GSM 01.04: "Digital cellular telecommunications system (Phase 2+); Abbreviations and acronyms".
[2]	GSM 02.04: "Digital cellular telecommunications system (Phase 2+); General on supplementary services".
[3]	GSM 02.82: "Digital cellular telecommunications system (Phase 2+); Call Forwarding (CF) Supplementary Services - Stage 1".
[3]	GSM 03.11: "Digital cellular telecommunications system (Phase 2+); Technical realization of supplementary services".
[4]	GSM 03.15: "Digital cellular telecommunications system (Phase 2+); Technical realization of operator determined barring".
[5]	<u>3G TS 23.078: "Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2".</u>

0.2 Abbreviations

Abbreviations used in the present document are listed in GSM 01.04.

0.3 The forwarded-to number

As indicated in GSM 02.82 the forwarded-to numbers are stored in the international format. The transfer from the HLR to other network entities and storage in the VLR shall also be in the international format.

0.4 Cross phase compatibility

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

- Call forwarding unconditional;
- Call forwarding on mobile subscriber busy;
- Call forwarding on no reply;
- Call forwarding on mobile subscriber not reachable.

The main body of the present document assumes that all network entities comply with this version of the service. In each case an additional subclause (subclause x.6) defines the additional requirements for when one or more network entities or the MS complies with the Phase 1 specifications for the supplementary service procedures.

0.6 Data stored in the HLR for all call forwarding services

The following data are stored in the HLR in common for all call forwarding services:

- The "notification to CSE flag". This flag applies for all call forwarding services. When the data for any Call Forwarding are changed, the HLR checks this flag. If the flag is set, the change is reported to the gsmSCF(s) defined by the gsmSCF address list. See 3G TS 23.078 [5];
- The "gsmSCF address list", which is a list of gsmSCF addresses to which Notification on Change of Subscriber Data is to be sent. This list applies to all call forwarding services. See 3G TS 23.078 [5];

3GPP TSG CN SS AD HOC Sophia Antipolis, France, 17-18 February 2000					ocument	NS-00050 Revised NS-000005
		CHANGE F	REQUES	Please s page for		file at the bottom of this v to fill in this form correctly.
		23.088	CR 00	1r3	Current Vers	ion: 3.0.0
GSM (AA.BB) or 3	G (AA.BBB) specii	ication number ↑		↑ CR number a	s allocated by MCC	support team
For submission	meeting # here↑	for ap for infor version 2 for 3GPP and SMG		of this form is availa.	strate non-strate ble from: ftp://ftp.3gpp.	
Proposed change affects: (U)SIM ME UTRAN / Radio Core Network X (at least one should be marked with an X)						Core Network X
Source:	SS ad hoo	;			Date:	18 Feb. 2000
Subject:		3-001r3 on introductors service.	tion of 'Notific	ation to CSI	E flag' to the o	all barring
Work item:	CAMEL P	hase3				
(only one category shall be marked (B Addition of C Functions	nds to a correction i		elease	Release:	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00
In CAMEL which is sto gsmSCF, th MAP_Any		change request will be phase3, it is required ored in the HLR, is not at is, gsmSCF can ac _Time_Modification bove, the 'notification	I that the changotified to the gotivate and dead operation, whi	ge of the call smSCF(s). Are tivate the no- ch is newly in	barring suppler nd the notificati tification to the ntroduced opera	on is controlled by CSE by using ation. For the reason
Clauses affecte	ed: 0.4 (r	new)				
Other specs affected:		ecifications	$\begin{array}{c} \rightarrow \text{ Lis} \\ \rightarrow \text{ Lis} \\ \rightarrow \text{ Lis} \\ \end{array}$	at of CRs: tof CRs: tof CRs: tof CRs: tof CRs:	23.078, 23.00	8, 23.082, 29.002
 Other comments: The 'notification to CSE flag' is not sent to the VLR, considering the impact on the process. As to the gsmSCF which is notified the change of the CB data, HLR has the pre-defigsmSCF(s) list per supplementary service. 					pact on the existing	



0 Scope

The present document 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 (clause 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 (clause 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" (clause 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.

0.1 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] GSM 01.04: "Digital cellular telecommunications system (Phase 2+); Abbreviations and acronyms".
- [2] GSM 02.82: "Digital cellular telecommunications system (Phase 2+); Call Forwarding (CF) Supplementary Services Stage 1".
- [3] GSM 03.11: "Digital cellular telecommunications system (Phase 2+); Technical realization of supplementary services".
- [4] <u>3G TS 23.078: "Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 Stage 2".</u>

0.2 Abbreviations

Abbreviations used in the present document are listed in GSM 01.04.

0.3 Cross-Phase compatibility

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

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

The main body of the present document assumes that all network entities comply with this version of the service. In each case an additional subclause (subclauses 1.6 and 2.6) defines the additional requirements for when one or more network entities or the MS complies with the Phase 1 specifications for the supplementary service procedures.

0.4 Data stored in the HLR for all call barring services

The following data are stored in the HLR in common for all call barring services:

- The "notification to CSE flag". This flag applies for all call barring services. When the data for any Call Barring are changed, the HLR checks this flag. If the flag is set, the change is reported to the gsmSCF(s) defined by the gsmSCF address list. See 3G TS 23.078 [4];
- The "gsmSCF address list", which is a list of gsmSCF addresses to which Notification on Change of Subscriber

 Data is to be sent. This list applies to all call barring services. See 3G TS 23.078 [4];