# 3GPP TSG CN Plenary Meeting #19 12<sup>th</sup> - 14<sup>th</sup> March 2003. Birmingham, U.K.

Source: CN2

Title: CRs on R99 Work Item CAMEL3, CR Pack 1

Agenda item: 7.1

Document for: APPROVAL

### Introduction:

This document contains 3 CRs on R99 WI CAMEL3 (against TS 23.078) and corresponding mirror CRs for Rel-4/Rel-5. These CRs have been agreed by TSG CN WG2 and are forwarded to TSG CN Plenary meeting #19 for approval.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
23.078	539	1	N2-030106	R99	Inconsistency in Call Information Report in Re-	F	
					Connect Case		3.15.0
23.078	540	1	N2-030107	Rel-4	Inconsistency in Call Information Report in Re-	A	
					Connect Case		4.7.0
23.078	541	1	N2-030108	Rel-5	Inconsistency in Call Information Report in Re-	A	
					Connect Case		5.2.0
23.078	521	1	N2-030115	R99	Correction to SRI Information Flow	F	3.15.0
23.078	543		N2-030116	Rel-4	Correction to SRI Information Flow	A	4.7.0
23.078	544		N2-030117	Rel-5	Correction to SRI Information Flow	A	5.2.0
23.078	532	1	N2-030121	R99	Introduction of ResetTimer input in state WFI-DS	F	3.15.0
23.078	545		N2-030122	Rel-4	Introduction of ResetTimer input in state WFI-DS	A	4.7.0
23.078	546		N2-030123	Rel-5	Introduction of ResetTimer input in state WFI-DS	A	5.2.0

### 3GPP TSG CN WG2#28 Dublin, Ireland, 10th - 14th February 2003

N2-030091rev

		CHANGE	REQ	UE	ST	. CR-Form-v7
23.078	CR	539	жrev	1	Ж	Current version: 3.15.0 **

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the \mathbb{H} symbols.

Proposed chang	ge a	affects:	UICC appsЖ	М	E Radio A	ccess Netw	ork	Core Net	work X
Title:	¥	Inconsi	stency in Call Informa	ation R	eport in Re-Co	onnect Case	9		
Source:	$\mathfrak{H}$	Alcatel							
Work item code.	<b>:</b> Ж	CAMEL	_3			Date:	<b>光</b> 10/	02/2003	
Category:	$\mathfrak{R}$	F (esse	ential correction)			Release:	₩ Re	I-99	
			of the following categor correction)	ies:		Use <u>one</u> 2		ollowing relea ∕I Phase 2)	ises:
		<b>A</b> (0	corresponds to a correc	tion in a	n earlier releas	e) R96	(Rele	ease 1996)	
		,	addition of feature),			R97	•	ease 1997)	
		<b>C</b> (f	unctional modification o	of feature	e)	R98	(Rele	ease 1998)	
		<b>D</b> (6	editorial modification)			R99	(Rele	ease 1999)	
			explanations of the abo	ve cate	gories can	Rel-4	(Rele	ease 4)	
		be found	in 3GPP <u>TR 21.900</u> .			Rel-5	(Rele	ease 5)	
1						D-1.0	/D-1-	(1	

#### Reason for change: ₩

29.078 V3.14.0 (2002-12) specifies in "11.9 CallInformationReport procedure" that "The report is sent at the end of a call party connection which is indicated by one of the events specified below.". The fact that the report is send at the end of the connection / in faliure cases is re-confirmed also in the "11.9.2.1 Normal procedure" for the Invoking entity (gsmSSF):

" If the gsmSSF FSM executes a state transition caused by one of the following events:

- release for the indicated or default leg;
- abandon for the indicated or default leg;
- Called party busy or Not Reachable for the indicated or default leg;
- gsmSSF no answer timer expiration for the indicated or default leg;
- route select failure for the indicated or default leg;
- release of call initiated by the gsmSCF (ReleaseCall),

and "CallInformationRequest" is pending for the indicated or default legs then one "CallInformationReport" operation is sent to the gsmSCF containing all information requested for that leg.".

In contrary "Figure 4.64f: Process gsmSSF (sheet 6)" implies to have an Call Information Report for leg 1 if CAP\_Connect is received in the state "Waiting for Instruction" and "Int\_Connect" is issued. However in that case leg1 continues to exsist and no Call Information Report shall apply for leg1.

This is also independent on wether or not the Destination Number was modified. Also the decission box "DP was due to Call Forwarding" would not be necessary.

#### Summary of change: ₩

Process gsmSSF, sheet 6: The decision boxes "DP was due to Call Forwarding" and "destination number changed" will be removed. The box "Handle\_CIR\_leg (leg 1)" will be removed. This is necessary because a CIR for leg 1 is only sent if leg 1 is released. This is not the case if the outgoing leg is re-connected. Delete in the above mentioned SDL the Call Information Report sending for leg1.

Consequences if not approved:

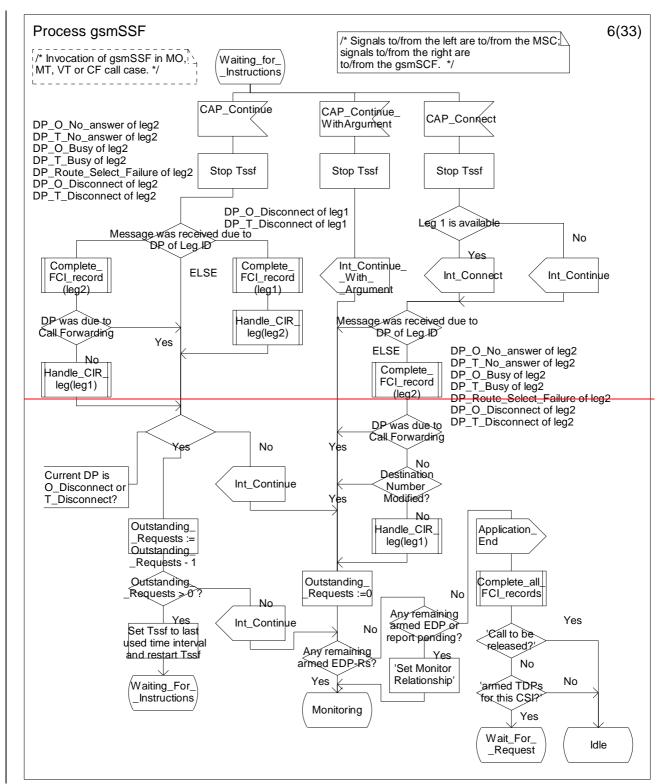
23.078 and 29.078 are inconsistent and different handling of the Call Information Report will exist in various handlings in the gsmSSFs and gsmSCFs and the services will not work.

Clauses affected:	# 4.5.6.4 Process gsmSSF and procedures
Other specs affected:	Y N  X Other core specifications
Other comments:	₩ #

#### Modified section —

#### 4.5.6.4 Process gsmSSF and procedures

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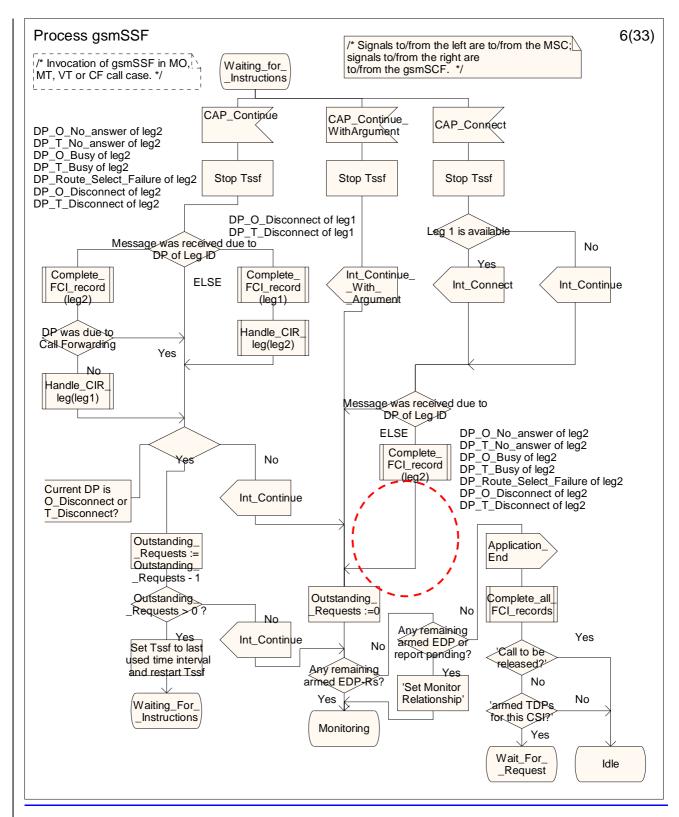


Figure 4.64f: Process gsmSSF (sheet 6)

— END —

### 3GPP TSG CN WG2#28 Dublin, Ireland, 10th - 14th February 2003

N2-030092ev

		CHAN	GE REQ	UE	ST	-		CR-Form-v7
ж	23.078 C	R <mark>540</mark>	⊭rev	1	¥	Current version:	4.7.0	¥
Ear <b>HEI D</b> on using this form, and bottom of this page or look at the near up toyt over the % aumbole								

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the **♯** symbols.

Proposed chang	ge a	iffects:	UICC apps#	N	1E Radio Ad	ccess Netwo	rk	Core Netw	ork X
	00								
Title:	$\mathfrak{R}$	Inconsi	stency in Call I	nformation F	Report in Re-Co	nnect Case			
Source:	¥	Alcatel							
Work item code	<i>:</i>	CAMEL	_3			Date: ∺	10/0	2/2003	
Category:	¥	Α				Release: ૠ	Rel-	4	
			of the following of correction)	categories:		Use <u>one</u> of 2		owing releas Phase 2)	es:
		<b>A</b> (0	corresponds to a	correction in a	an earlier release	e) R96	•	se 1996)	
		<b>B</b> (8	addition of featur	e),		R97	(Relea	se 1997)	
		<b>C</b> (f	unctional modific	cation of featu	re)	R98	(Relea	se 1998)	
		D (6	editorial modifica	tion)		R99	(Relea	se 1999)	
		Detailed of	explanations of t	he above cate	gories can	Rel-4	(Relea	se 4)	
		be found	in 3GPP TR 21.9	<u>900</u> .	-	Rel-5	(Relea	se 5)	
			·	·		Rel-6	Relea	se 6)	

#### Reason for change: #

29.078 V4.7.0 (2002-12) specifies in "11.9 CallInformationReport procedure" that "The report is sent at the end of a call party connection which is indicated by one of the events specified below.". The fact that the report is send at the end of the connection / in faliure cases is re-confirmed also in the "11.9.2.1 Normal procedure" for the Invoking entity (gsmSSF):

" If the gsmSSF FSM executes a state transition caused by one of the following events:

- release for the indicated or default leg;
- abandon for the indicated or default leg;
- Called party busy or Not Reachable for the indicated or default leg;
- gsmSSF no answer timer expiration for the indicated or default leg;
- route select failure for the indicated or default leg;
- release of call initiated by the gsmSCF (ReleaseCall),

and "CallInformationRequest" is pending for the indicated or default legs then one "CallInformationReport" operation is sent to the gsmSCF containing all information requested for that leg.".

In contrary "Figure 4.64f: Process gsmSSF (sheet 6)" implies to have an Call Information Report for leg 1 if CAP\_Connect is received in the state "Waiting for Instruction" and "Int\_Connect" is issued. However in that case leg1 continues to exsist and no Call Information Report shall apply for leg1.

This is also independent on wether or not the Destination Number was modified. Also the decission box "DP was due to Call Forwarding" would not be necessary.

#### Summary of change: ₩

Process gsmSSF, sheet 6: The decision boxes "DP was due to Call Forwarding" and "destination number changed" will be removed. The box "Handle\_CIR\_leg (leg 1)" will be removed. This is necessary because a CIR for leg 1 is only sent if leg 1 is released. This is not the case if the outgoing leg is re-connected. Delete in the above mentioned SDL the Call Information Report sending for leg1.

Consequences if not approved:

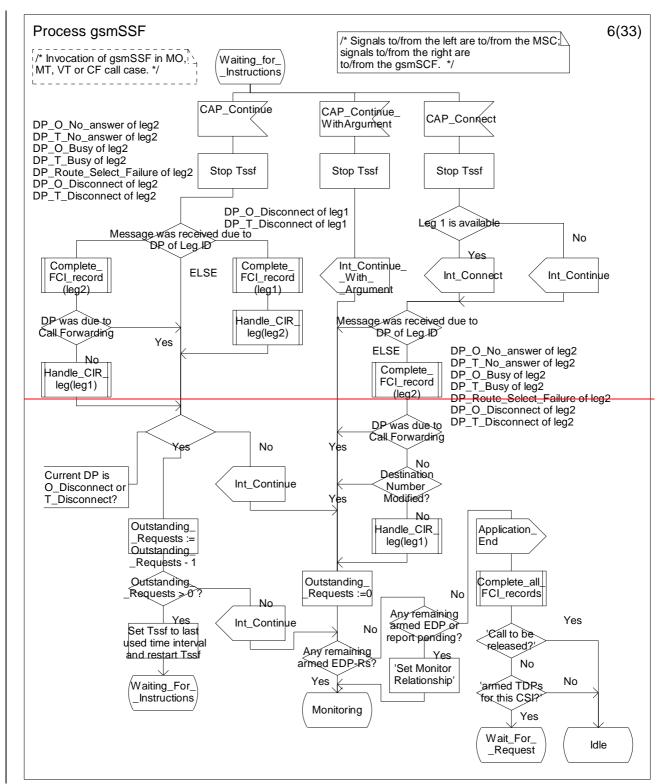
23.078 and 29.078 are inconsistent and different handling of the Call Information Report will exist in various handlings in the gsmSSFs and gsmSCFs and the services will not work.

Clauses affected:	# 4.5.6.4 Process gsmSSF and procedures
Other specs affected:	Y N  X Other core specifications
Other comments:	₩ #

#### — Modified section —

#### 4.5.6.4 Process gsmSSF and procedures

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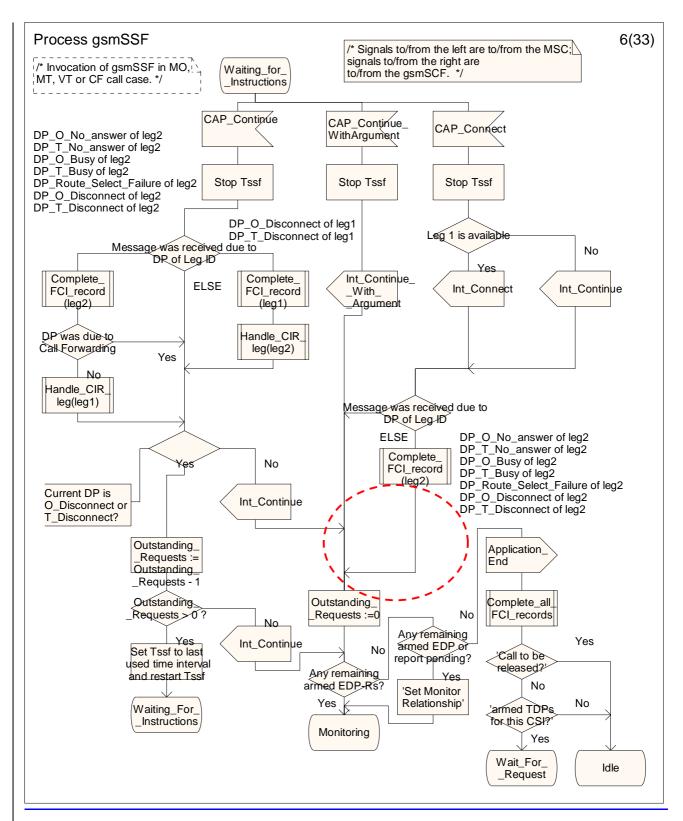


Figure 4.64f: Process gsmSSF (sheet 6)

— END —

### 3GPP TSG CN WG2#28 Dublin, Ireland, 10th - 14th February 2003

N2-030093rev

	(	CHANGE	REQ	UE	ST	-		CR-Form-v7
×	23.078 CR	541	<b>≋rev</b>	1	$\mathfrak{H}$	Current version:	5.2.0	ж

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the **#** symbols.

Proposed change	e <b>affects:</b> UICC apps第 <mark></mark> ME <mark></mark> Radio Ac	cess Network Core Network X
Title:	Inconsistency in Call Information Report in Re-Cor	nnect Case
Source:	⊀ Alcatel	
Work item code:	€ CAMEL3	Date: 第 10/02/2003
Category:	€ A	Release:   Rel-5
	Use <u>one</u> of the following categories:	Use <u>one</u> of the following releases:
	<b>F</b> (correction)	2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)	,
	<b>B</b> (addition of feature),	R97 (Release 1997)
	<b>C</b> (functional modification of feature)	R98 (Release 1998)
	<b>D</b> (editorial modification)	R99 (Release 1999)
	Detailed explanations of the above categories can	Rel-4 (Release 4)
	be found in 3GPP <u>TR 21.900</u> .	Rel-5 (Release 5)
		Dol C (Dologo C)

#### Reason for change: ₩

29.078 V5.2.0 (2002-12) specifies in "11.6 CallInformationReport procedure" that "The report shall be sent at the end of a call party connection which is indicated by one of the events specified below.". The fact that the report is send at the end of the connection / in faliure cases is re-confirmed also in the "11.6.2.1 Normal procedure" for the Invoking entity (gsmSSF):

" If the gsmSSF FSM executes a state transition caused by one of the following events:

- release for the indicated or default leg;
- abandon for the indicated or default leg;
- Called party Busy or Not Reachable for the indicated or default leg;
- gsmSSF No\_Answer timer expiration for the indicated or default leg;
- route select failure for the indicated or default leg;
- release of call initiated by the gsmSCF (ReleaseCall),

and "CallInformationRequest" is pending for the indicated or default legs then one "CallInformationReport" operation is sent to the gsmSCF containing all information requested for that leg.".

In contrary "Figure 4.95-14: Process CS\_gsmSSF (sheet 14)" implies to have an Call Information Report for leg 1 if Int\_Connect is received in the state "Waiting for Instruction" and "Int\_Connect" is issued. However in that case leg1 continues to exsist and no Call Information Report shall apply for leg1.

This is also independent on wether or not the Destination Number was modified. Also the decission box "DP was due to Call Forwarding" would not be necessary.

#### Summary of change: ₩

Process CS\_gsmSSF, sheet 14: The decision boxes "DP was due to Call Forwarding" and "destination number changed" will be removed. The box "Handle\_CIR\_leg (leg 1)" will be removed. This is necessary because a CIR for leg 1 is only sent if leg 1 is released. This is not the case if the outgoing leg is reconnected.

Delete in the above mentioned SDL the Call Information Report sending for leg1.

Consequences if not approved:

23.078 and 29.078 are inconsistent and different handling of the Call Information Report will exist in various handlings in the gsmSSFs and gsmSCFs and the services will not work.

Clauses affected: # 4.5.7.4 Process gsmSSF and procedures

Other specs affected: # X Other core specifications # TS 23.278 CR039

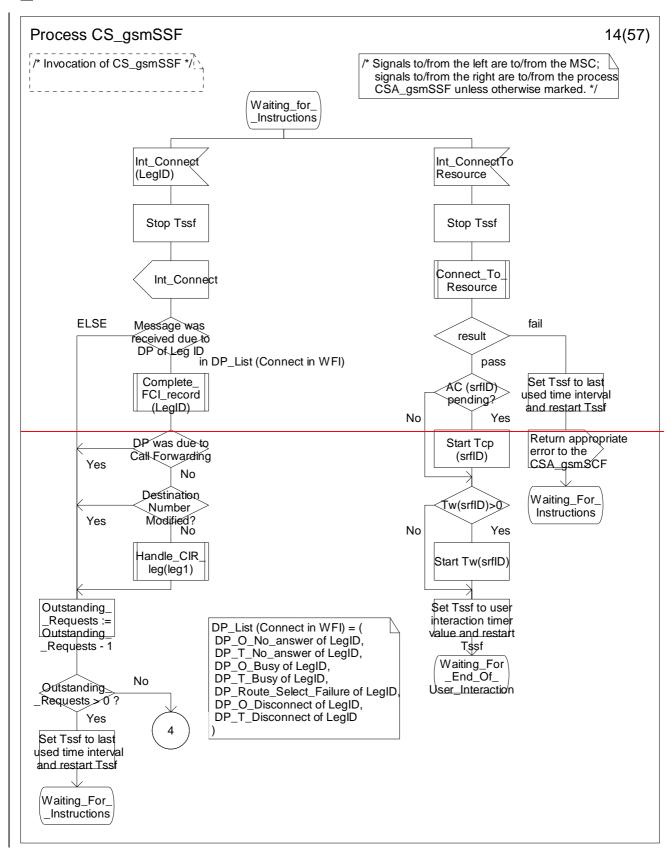
Test specifications O&M Specifications

Other comments: #

### — Modified section —

### 4.5.7.4 Process CS\_gsmSSF and procedures

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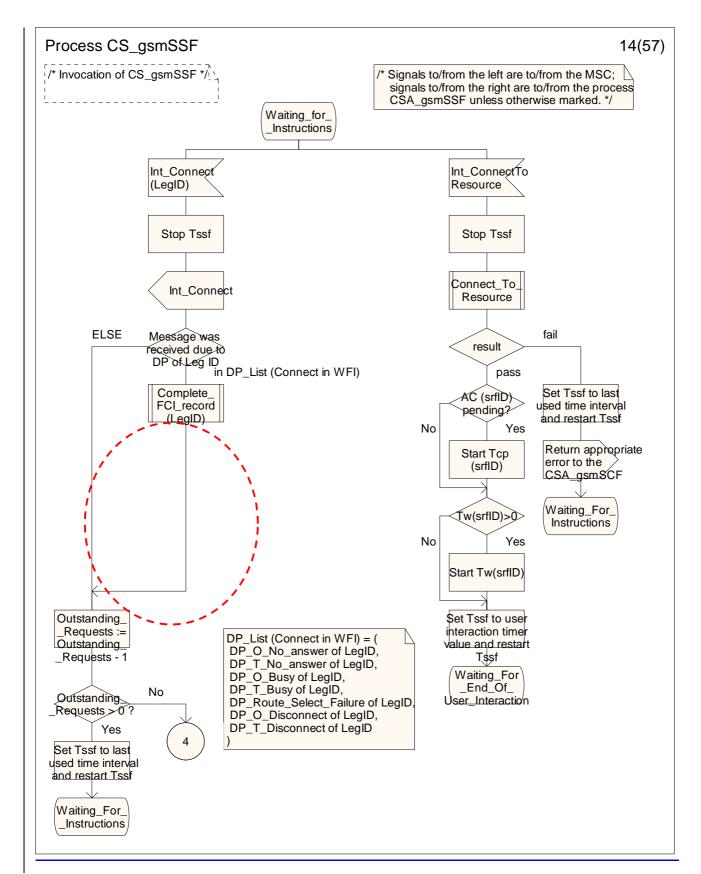


Figure 4.95-14: Process CS\_gsmSSF (sheet 14)

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# 3GPP TSG CN WG2 Meeting #28 Dublin, EIRE, 10<sup>th</sup> – 14<sup>th</sup> February 2003

(revision of N2-030025)

			CI	HANG	E RE	QU	ES	T			
*	23.	078	CR	521	жre	v	<b>1</b> 3	€	Current vers	sion:	3.15.0 <sup>#</sup>
Proposed change a	əffacı	fer l	JICC app	ve ₩ 📉	ME		Padio	Δα	ccess Netwo	rk 📗	Core Network X
Troposed change of	arrece	.s. (	лоо арг	7300	IVIL		vauic	,	cess Netwo	1K	Core Network A
T:41- 00	0		. t. ODI	1 - 1 - (	- C EI	_					
Title: 第	Cor	rection	n to SRI	ack Informa	ation Flo	OW					
Source: #	Eric	sson									
Work item code: ₩	CAI	MEL3							Date: ₩	11/	02/2003
Category: Ж			ial correc						Release: #	_	=
			the followi rection)	ing categori	es:				Use <u>one</u> of 2	(GSI	ollowing releases: A Phase 2)
			responds lition of fe	to a correcti ature)	ion in an	earlie	r rele	ase	e) R96 R97		ease 1996) ease 1997)
	(	C (fund	ctional mo	dification of	f feature)	)			R98	(Rele	ease 1998)
		<b>D</b> (ean	torial mod	ification)					R99 Rel-4		ease 1999) ease 4)
									Rel-5 Rel-6		ease 5) ease 6)
Passan for abanga	. w	\//bo	n tha Ul	D condo C	DI Aok	to the	CNA	20	it may inclu	do T	CSI criteria in this
Reason for change	<i>:.</i> —	Infor	mation F	low (IF). H	owever	, the T	Γ-CS	l cr			missing from the
		This	error sha	all be corre	cted in	TS 23	3.078	3.			
											may include only
		critei	ria assoc	lated with	DP I_B	susy o	r DP	' '_	No_Answer	•	
Summary of chang	10. H	In the	a Informa	ation Flow	table of	SDI /	\ck ·	add	I the DP Crit	oria ta	the T-CSI
Summary or chang	JC. 66			lement des			ick, c	auu	Tule Di Cili	ena u	The 1-001
Consequences if	$\mathbb{H}$	Inter	working i	oroblems n	nav occ	ur; an	HLF	R m	ay not send	the tr	igger criteria for T-
not approved:		CSI	to the GN		problem	n may	ham				of CAMEL services
			•	ie ingger c	illella il	JI 1-C	, SI.				
Clauses affected:	$\mathfrak{H}$	4.6.9	).1								
		YN	0.1			=					
Other specs affected:	$\mathfrak{H}$	X		ore specifice		3	£				
		X		pecification							
Other comments:	$\mathfrak{H}$	The 1	table in s	ection 4.6.	9.1 refe	rs to	secti	on ·	4.3.3 for a d	escrin	otion of T-CSI.
											the present CR.

# \*\*\* First Modified Section \*\*\*

### 4.6.9.1 Send Routeing Info ack

### 4.6.9.1.1 Description

This IF is specified in 3GPP TS 23.018 [3] and is used by the HLR to transfer the requested routeing information to the GMSC.

#### 4.6.9.1.2 Information Elements

Send Routeing Info ack contains the following CAMEL specific IE:

Information element name	Required	Description
Location Information	С	This IE indicates the location of the served subscriber.
O-CSI	С	This IE identifies the subscriber as having originating CAMEL services. Shall be sent if O-CSI is active, and CFU or CFNRc has been invoked, or if both O-CSI and T-CSI are active.
D-CSI	С	This IE identifies the subscriber as having originating CAMEL dialled services.  Shall be sent if D-CSI is active, and CFU or CFNRc has been invoked, or if both D-CSI and T-CSI are active.
Subscriber State	С	<ul> <li>This IE indicates the status of the MS. The possible values of the IE are:</li> <li>CAMELBusy: The VLR has indicated that the MS is engaged on a transaction for a mobile originating or terminated circuit-switched call.</li> <li>NetworkDeterminedNotReachable: The VLR has indicated that the network can determine from its internal data that the MS is not reachable.</li> <li>AssumedIdle: The VLR has indicated that the state of the MS is neither "CAMELBusy" nor "NetworkDeterminedNotReachable".</li> <li>NotProvidedFromVLR: The VLR did not provide any information on subscriber state even though it was requested.</li> </ul>
T-CSI	С	This IE identifies the subscriber as having terminating CAMEL services. Shall be sent if T-CSI is active and no Suppress T-CSI indicator is present in the SRI.
Basic Service Code	С	This IE indicates the type of basic service i.e. teleservice or bearer service.
CUG Subscription Flag	С	This IE indicates if the called party has a CUG subscription. It shall only be sent if the T-CSI is active and included in the Send Routing Information ack.
C Conditional (The IE shall	I be sent, if a	vailable).

Location Information contains is defined in 3GPP TS 23.018 [3]. The following differences apply:

Information element name	Required	Description					
Service area ID	C1	See 3GPP TS 23.018 [3].					
Cell ID	C1	See 3GPP TS 23.018 [3].					
Current Location Retrieved	-	Not applicable					
Location area ID	C1	See 3GPP TS 23.003 [37].					
Selected LSA Identity	С	This IE indicates the LSA identity associated with the current position of the MS. Shall be present if the LSA ID in the subscriber data matches the LSA ID of the current cell. In the case of multiple matches the LSA ID with the highest priority shall be sent. See 3GPP TS 23.073 [23].					
C Conditional (The IE shall	Conditional (The IE shall be sent, if available and SoLSA is supported).						
C1 Conditional (The IE shall be sent, if available. One and only one of the three conditional IEs sha							
<ul> <li>Not applicable.</li> </ul>							

O-CSI is defined in clause 4.3.1.

### D-CSI is defined in clause 4.3.2.

### T-CSI contains the following information:

Information element name	Required	Description
gsmSCF Address	M	This IE is described in clause 4.3.34.3.4.
Service Key	М	This IE is described in clause 4.3.34.3.4.
Default Call Handling	M	This IE is described in clause 4.3.34.3.4.
TDP List	M	This IE is described in clause 4.3.34.3.4.
DP Criteria	<u>C1</u>	This IE is described in clause 4.3.34.3.4.
CAMEL Capability Handling	С	This IE is described in clause 4.3.34.3.4. If this IE is absent, this
		indicates that CAMEL phase 1 is asked.
M Mandatory.		
C Conditional.		
C1 Conditional (The HLR sh	all send only	the criteria associated with DPT Busy or DPT No Answer, if
available).		·

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	CHANGE REQUEST									
*	23.0	078 CR	543	жrev		ж (	Current vers	ion: <b>4.7</b>	.0	₩
Proposed change a	affects	s: UICC ap	psЖ <mark> </mark>	ME	Radi	io Acc	cess Netwo	k Core	e Netv	work X
Title: 第	Corr	ection to SRI	ack Informa	ation Flow	1					
Source: #	Erics	son								
Work item code: ₩	CAM	IEL3					<i>Date:</i> ∺	11/02/200	03	
Reason for change	F A B C D	me of the follow (correction) (corresponds (addition of fit) (functional mode) (editorial mode)  When the HI Information I description of fit)  This error sh	a to a corrective acture), odification of diffication of SRI Res in all be correction of T-CSI	RI Ack to owever, the the IF ta	the GM ne T-Co ble in s 23.07	MSC, i SI critisection 8.	2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	the following (GSM Phas (Release 19 (Release 19 (Release 19 (Release 4) (Release 5) (Release 6)	e 2) 96) 97) 98) 99) teria	in this
Summary of chang	/e: ૠ	In the Inform	ation Flow t	able of SI				eria to the T	-CSI	
Consequences if not approved:	¥	Information E Interworking CSI to the G that rely on t	problems m MSC. This p	nay occur oroblem n	nay hai					
Clauses affected:	¥	4.6.9.1								
Other specs affected:	æ	X Test sp	core specific pecifications specification	;	*					
Other comments:		The table in However, that								

# \*\*\* First Modified Section \*\*\*

### 4.6.9.1 Send Routeing Info ack

### 4.6.9.1.1 Description

This IF is specified in 3GPP TS 23.018 [3] and is used by the HLR to transfer the requested routeing information to the GMSC.

#### 4.6.9.1.2 Information Elements

Send Routeing Info ack contains the following CAMEL specific IE:

Information element name	Required	Description				
Location Information	С	This IE indicates the location of the served subscriber.				
O-CSI	С	This IE identifies the subscriber as having originating CAMEL services. Shall be sent if O-CSI is active, and CFU or CFNRc has been invoked, or if both O-CSI and T-CSI are active.				
D-CSI	С	This IE identifies the subscriber as having originating CAMEL dialled services.  Shall be sent if D-CSI is active, and CFU or CFNRc has been invoked, or if both D-CSI and T-CSI are active.				
Subscriber State	С	<ul> <li>This IE indicates the status of the MS. The possible values of the IE are:</li> <li>CAMELBusy: The VLR has indicated that the MS is engaged on a transaction for a mobile originating or terminated circuit-switched call.</li> <li>NetworkDeterminedNotReachable: The VLR has indicated that the network can determine from its internal data that the MS is not reachable.</li> <li>AssumedIdle: The VLR has indicated that the state of the MS is neither "CAMELBusy" nor "NetworkDeterminedNotReachable".</li> <li>NotProvidedFromVLR: The VLR did not provide any information on subscriber state even though it was requested.</li> </ul>				
T-CSI	С	This IE identifies the subscriber as having terminating CAMEL services. Shall be sent if T-CSI is active and no Suppress T-CSI indicator is present in the SRI.				
Basic Service Code	С	This IE indicates the type of basic service i.e. teleservice or bearer service.				
CUG Subscription Flag	С	This IE indicates if the called party has a CUG subscription. It shall only be sent if the T-CSI is active and included in the Send Routing Information ack.				
C Conditional (The IE shall be sent, if available).						

Location Information contains is defined in 3GPP TS 23.018 [3]. The following differences apply:

Information element name	Required	Description				
Service area ID	C1	See 3GPP TS 23.018 [3].				
Cell ID	C1	See 3GPP TS 23.018 [3].				
Current Location Retrieved	-	Not applicable				
Location area ID	C1	See 3GPP TS 23.003 [37].				
Selected LSA Identity	С	This IE indicates the LSA identity associated with the current position of the MS. Shall be present if the LSA ID in the subscriber data matches the LSA ID of the current cell. In the case of multiple matches the LSA ID with the highest priority shall be sent. See 3GPP TS 23.073 [23].				
C Conditional (The IE shall	Conditional (The IE shall be sent, if available and SoLSA is supported).					
C1 Conditional (The IE shall	Conditional (The IE shall be sent, if available. One and only one of the three conditional IEs shall be sent).					
<ul> <li>Not applicable.</li> </ul>	Not applicable.					

O-CSI is defined in clause 4.3.1.

### D-CSI is defined in clause 4.3.2.

### T-CSI contains the following information:

Information element name	Required	Description
gsmSCF Address	M	This IE is described in clause 4.3.34.3.4.
Service Key	М	This IE is described in clause 4.3.34.3.4.
Default Call Handling	M	This IE is described in clause 4.3.34.3.4.
TDP List	M	This IE is described in clause 4.3.34.3.4.
DP Criteria	<u>C1</u>	This IE is described in clause 4.3.34.3.4.
CAMEL Capability Handling	С	This IE is described in clause 4.3.34.3.4. If this IE is absent, this
		indicates that CAMEL phase 1 is asked.
M Mandatory.		
C Conditional.		
C1 Conditional (The HLR sh	all send only	the criteria associated with DPT Busy or DPT No Answer, if
available).		·

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			Cł	HANG	E RE	QUE	ST				
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Proposed change a	affects	s: Ul	СС арр	s# <mark></mark>	ME[	Ra	dio Ac	cess Netwo	rk	Core Ne	etwork <b>X</b>
Title: 第	Corr	ection	to SRI a	ack Inform	ation Flo	W					
Source: #	Erics	sson									
Work item code: ₩	CAN	IEL3						Date: ℜ	11/0	02/2003	
	F A E	(corre	ction) esponds a tion of fea	dification o	tion in an e	earlier r	release	Release: 光 Use <u>one</u> of 2 ) R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	the fol (GSM (Relea (Relea (Relea	lowing reli Phase 2) ase 1996) ase 1997) ase 1998) ase 1999) ase 4)	
Reason for change.	<i>:</i> ¥	Inform descri	nation Fliption of error sha	low (IF). H SRI Res all be corre	lowever, in the IF t ected in T	the T-cable in S 23.0	CSI cri n section 178. may se	it may includiteria are curon 4.6.9.1.  end to the GNO_Answer.	rently MSC r	missing	from the
Summary of change	e: ೫			tion Flow ement de		SRI Ac	k, add	the DP Crite	eria to	the T-CS	SI
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Clauses affected:	ж	4.6.9.	1								
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Other comments:	¥										

# \*\*\* First Modified Section \*\*\*

### 4.6.9.1 Send Routeing Info ack

### 4.6.9.1.1 Description

This IF is specified in 3GPP TS 23.018 [Error! Reference source not found. Error! Reference source not found.]; it is used by the HLR to transfer the requested routeing information to the GMSC.

#### 4.6.9.1.2 Information Elements

Send Routeing Info ack contains the following CAMEL specific information elements:

Information element name	Status	Description
Location Information	С	This IE indicates the location of the served subscriber.
O-CSI	S	O-CSI is defined in subclause Error! Reference source not found. Error!
		Reference source not found.
		This IE identifies the subscriber as having originating CAMEL services.
		It shall be present if O-CSI is active, and CFU or CFNRc has been invoked, or
		if both O-CSI and T-CSI are active.
D-CSI	S	D-CSI is defined in subclause Error! Reference source not found. Error!
		Reference source not found.
		This IE identifies the subscriber as having originating CAMEL dialled services.
		It shall be present if D-CSI is active, and CFU or CFNRc has been invoked, or
		if both D-CSI and T-CSI are active.
Subscriber State	С	This IE indicates the state of the MS. The possible values of the IE are:
		- CAMEL Busy: The VLR has indicated that the MS is engaged in a
		transaction for a mobile originating or terminated circuit-switched call.
		- Network Determined Not Reachable: The HLR or VLR has indicated that
		the network can determine from its internal data that the MS is not reachable.
		- Assumed Idle: The VLR has indicated that the state of the MS is neither
		"CAMEL Busy" nor "Network Determined Not Reachable".
		- Not Provided From VLR: The VLR did not provide any information on
		subscriber state even though it was requested.
T-CSI	S	This IE is described in a table below.
		This IE identifies the subscriber as having terminating CAMEL services.
		It shall be present if T-CSI is active and no Suppress T-CSI indicator is
		present in the Send Routeing Info IF.
Basic Service Code	С	This IE indicates the type of basic service i.e., teleservice or bearer service.
CUG Subscription Flag	S	This IE indicates if the called party has a CUG subscription. It shall be present
		only if the T-CSI is active and included in the Send Routing Information ack IF.
Supported CAMEL Phases In	S	This IE indicates the supported CAMEL phases of the VLR. It shall be present
VMSC		if known by the HLR, otherwise it shall be absent.
Offered CAMEL4 CSIs In VMSC	S	This IE indicates the CAMEL phase 4 CSIs offered in the VMSC. It shall be
		present if known by the HLR, otherwise it shall be absent.
VMSC Address	М	This IE indicates the E.164 address of the VMSC in whose area the B
		subscriber is currently registered.

Location Information is defined in 3GPP TS 23.018 [Error! Reference source not found. Error! Reference source not found.]. The following differences apply:

Information element name	Status	Description
Service area ID	C,E	See 3GPP TS 23.018 [Error! Reference source not found. Error! Reference source not found.].
Cell ID	C,E	See 3GPP TS 23.018 [Error! Reference source not found. Error! Reference source not found.].
VLR Number	С	See 3GPP TS 23.018 [Error! Reference source not found. Error! Reference source not found.]. The HLR shall include the internally stored VLR Number.
Current Location Retrieved	-	Not applicable
Location area ID	C,E	See 3GPP TS 23.003 [Error! Reference source not found. Error! Reference source not found.]
Selected LSA Identity	S	This IE indicates the LSA identity associated with the current position of the MS. Shall be present if the LSA ID in the subscriber data matches the LSA ID

Information element name	Status	Description
		of the current cell. If there are multiple matches the LSA ID with the highest priority shall be sent. See 3GPP TS 23.073 [Error! Reference source not
		found. Error! Reference source not found.].

### T-CSI contains the following information elements:

Information element name	Status	Description
gsmSCF Address	M	This IE is described in subclause <b>Error! Reference source not found. Error!</b>
		Reference source not found.
Service Key	M	This IE is described in subclause <b>Error! Reference source not found. Error!</b>
		Reference source not found.
Default Call Handling	M	This IE is described in subclause <b>Error! Reference source not found. Error!</b>
		Reference source not found.
TDP List	M	This IE is described in subclause <b>Error! Reference source not found. Error!</b>
		Reference source not found.
DP Criteria	<u>S</u>	This IE is described in subclause 4.3.5. The HLR shall send only the criteria
		associated with DP T_Busy or DP T_No_Answer, if available.
CAMEL Capability Handling	С	This IE is described in subclause <b>Error! Reference source not found. Error!</b>
		Reference source not found. If this IE is absent then this indicates that
		CAMEL phase 1 support is requested.

### Offered CAMEL4 CSIs In VMSC contains the following information elements:

Information element name	Status	Description
O-CSI	S	This IE indicates the offer of CAMEL phase 4 O-CSI. It shall be present if known by the HLR, otherwise it shall be absent.
D-CSI	S	This IE indicates the offer of CAMEL phase 4 D-CSI. It shall be present if known by the HLR, otherwise it shall be absent.
VT-CSI	S	This IE indicates the offer of CAMEL phase 4 VT-CSI. It shall be present if known by the HLR, otherwise it shall be absent.
MT-SMS-CSI	S	This IE indicates the offer of CAMEL phase 4 MT-SMS-CSI. It shall be present if known by the HLR, otherwise it shall be absent.

*** End of Document ***
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CHANGE REQUEST										
*	23.078	CR	532	жrev	1	$\mathfrak{H}$	Current version: 3.15.0			
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the <b>#</b> symbols.										
Proposed change affects: UICC apps# ME Radio Access Network Core Network X										
Title: ₩	Introduction	on of R	esetTimer inp	out in stat	e WF	I-DS				
Source: #	Nokia									
Source. m	INUNIA									
Work item code: ₩	CAMEL3						Date:    11/02/2003			
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Reason for change	:	Reset	Timer is miss	ing in CS	_gsm	SSF	state WFI-DS (Dialled services)			
Summary of chang	e: 光 The	input is	intruduced.							
Consequences if not approved:	oper gets	ation, a	and recipient complicated d	does not a ue to this	accep obvic	t the	ors when the SCP sends the operation. In addition, the SCP loginistake in the spec (SCP may have to one special case).			
Clauses affected:	H									
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Other comments:	$\mathfrak{H}$									

### -- First Modified Section --

### 4.5.7.4 Process CS\_gsmSSF and procedures

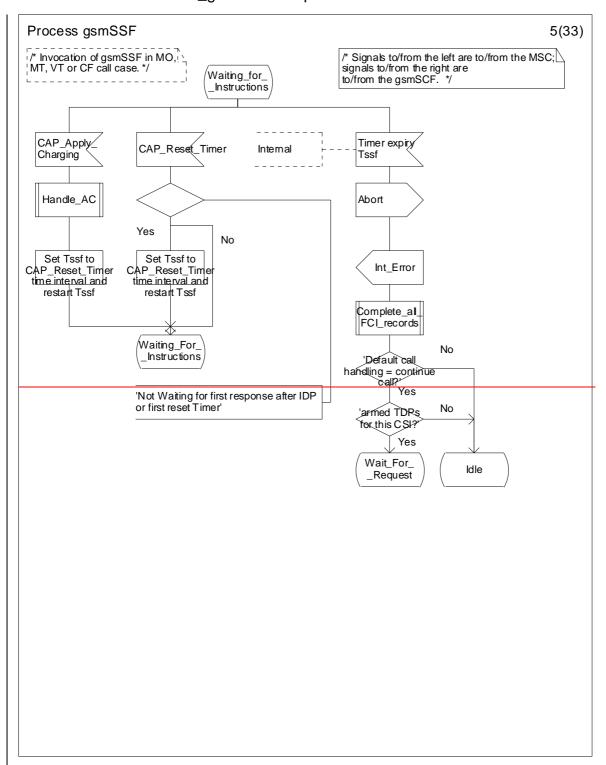
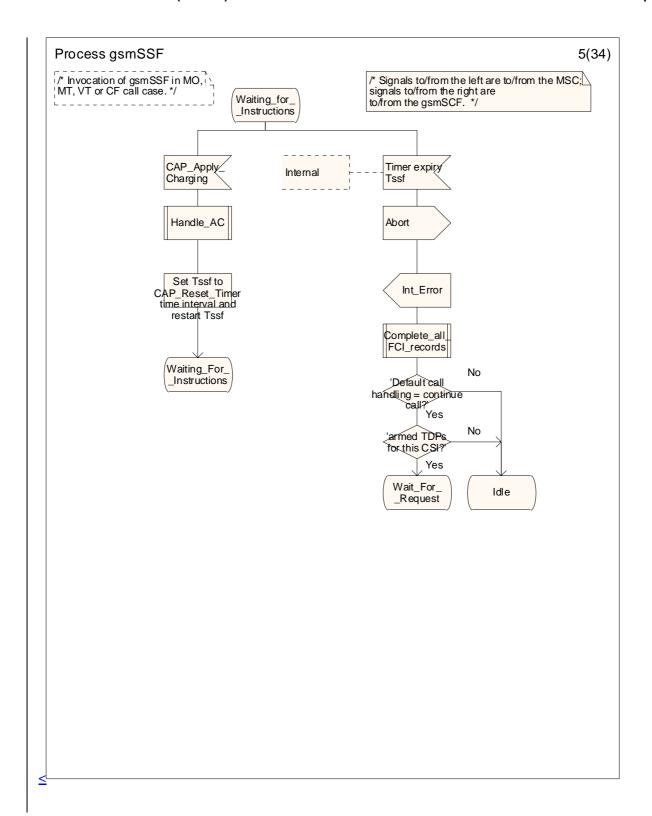
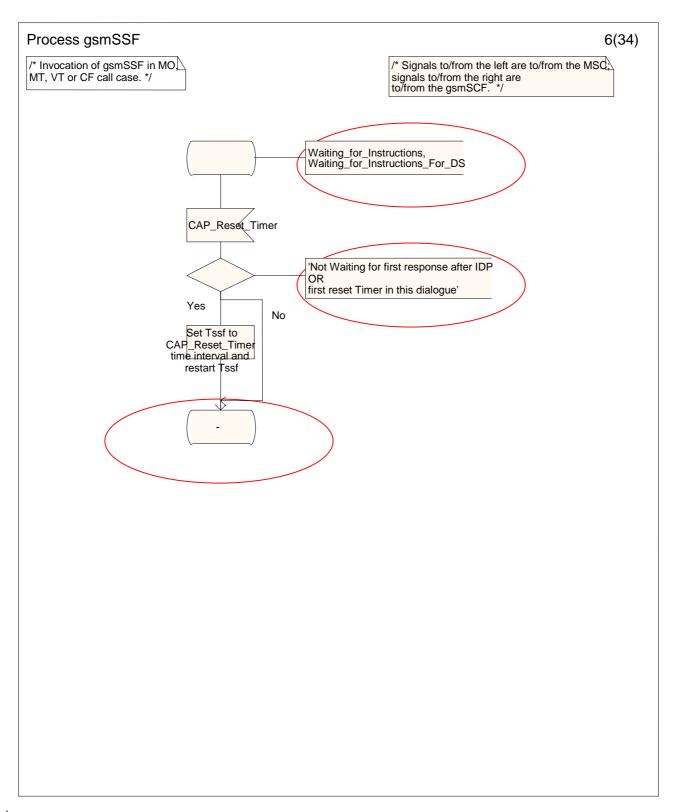


Figure 4.64e: Process gsmSSF (sheet 5) - old





<new>

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For HELP on using this form, see bottom of this page or look at the pop-up text over the \mathbb{K} symbols.  Proposed change affects: UICC apps\mathbb{K} ME Radio Access Network Core Network X										
Title:	Introducti	on of ResetT	imer input in	state WFI-	-DS					
Source: #	Nokia									
ourse.	TTORIG									
Work item code: ₩	CAMEL3					Date: ℜ	11/02/2003			
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D	- 00 1	( D (T'		00	205 - ( -	L. WELDO	/D'-II- I	· \		
Reason for change:  Input ResetTimer is missing in CS_gsmSSF state WFI-DS (Dialled services)  The input is intruduced.  Consequences if not approved:  Interworking problems occur between vendors when the SCP sends the operation, and recipient does not accept the operation. In addition, the SCP logic gets more complicated due to this obvious mistake in the spec (SCP may have to suspend the sending of ResetTimer just inb one special case).										
Clauses affected:	<b></b>									
Other specs affected:	X X X X	Test specif		*	N2-030	060 23.278	3-CR028			
Other comments:	<b></b>									

### -- First Modified Section --

### 4.5.7.4 Process CS\_gsmSSF and procedures

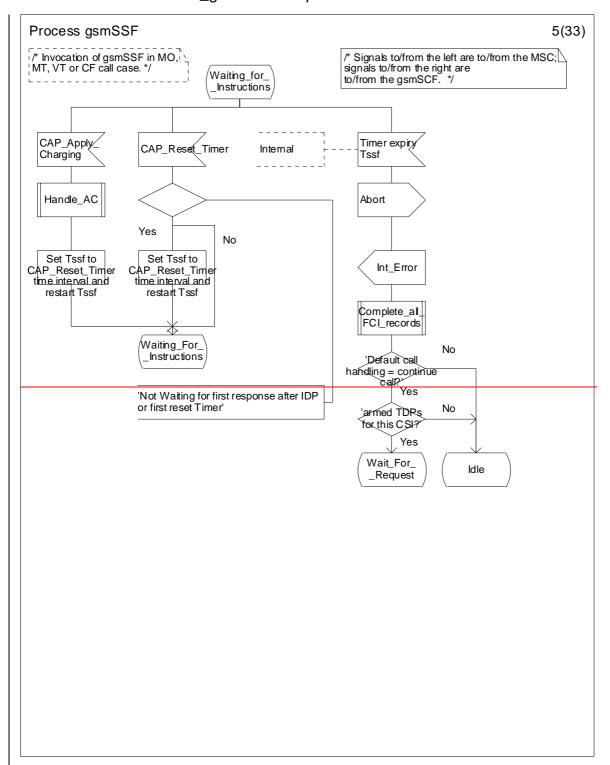
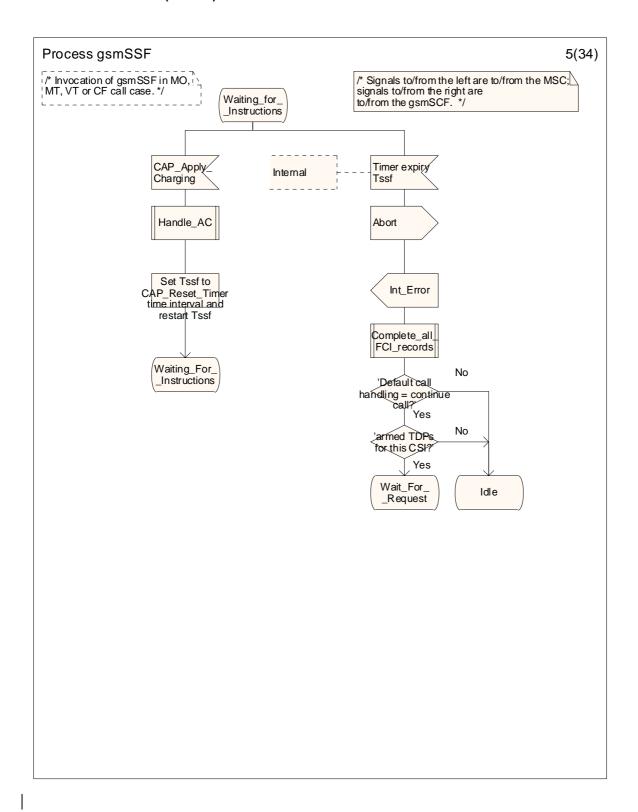
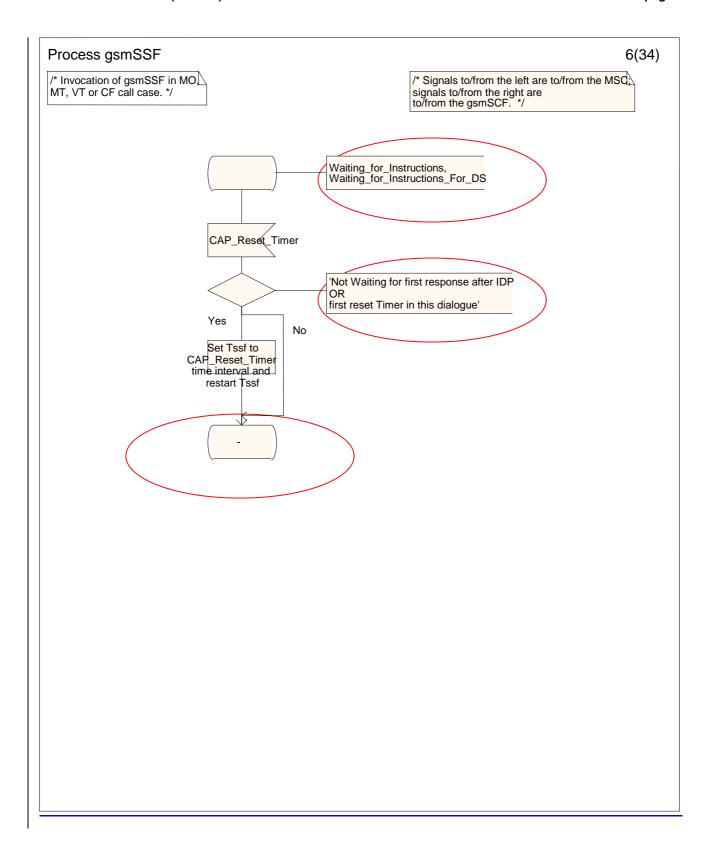


Figure 4.64e: Process gsmSSF (sheet 5) - old





## 3GPP TSG CN WG2 Meeting #28 Dublin, Ireland, 10<sup>th</sup> – 14<sup>th</sup> February 2003

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CHANGE REQUEST										CIX-I OIIII-VI
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For <u>HELP</u> on u	sing this	form, see	bottom of	this page or	look at	t the po	p-up text	over th	ne Ж syr	nbols.
Proposed change	affects:	UICC a	pps#	ME	Radio	o Acces	ss Networ	k	Core Ne	etwork <b>X</b>
Title:	Introdu	ction of F	tesetTimer	input in stat	e WFI-I	DS				
Source: #	Nokia									
Work item code: ∺	CAMEL	_3					Date: ₩	11/02	2/2003	
Category: ₩	F (c) A (c) B (a) C (f) D (e) Detailed	correction) correspond addition of functional editorial m explanatio	ds to a corred feature), modification odification)	ction in an ea		L	R97 R98 R99 Rel-4	(GSM F (Releas (Releas (Releas	owing rele Phase 2) se 1996) se 1997) se 1998) se 1999) se 4) se 5)	eases:
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Other comments:	$\mathbb{H}$									

### -- First Modified Section --

### 4.5.7.4 Process CS\_gsmSSF and procedures

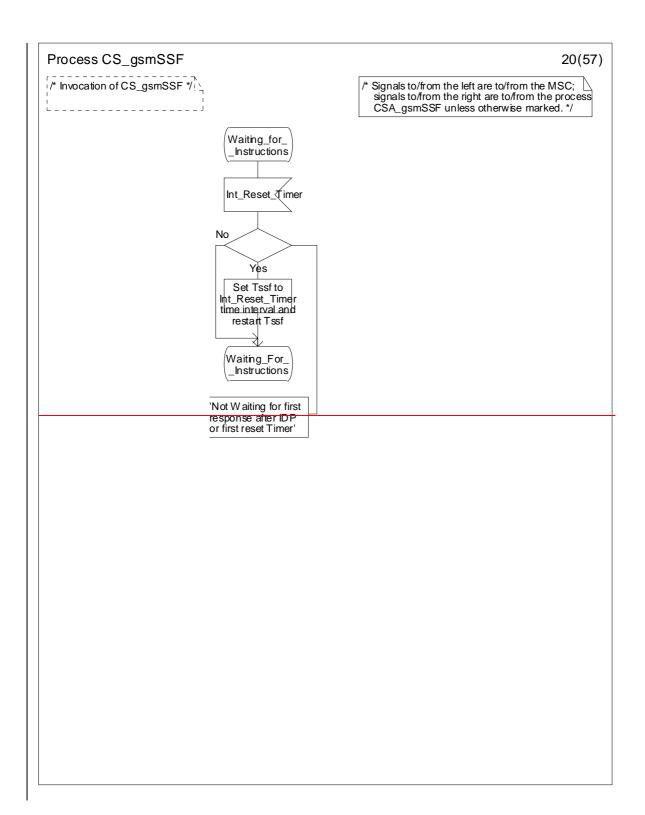


Figure 4.95-20: Process CS\_gsmSSF (sheet 20)

