Tdoc NP-010447

3GPP TSG CN Plenary Meeting #13 Beijing, China, 19th - 21st June 2001

Source: TSG CN WG2

Title: CRs on R99 and Rel-4 Work Item CAMEL3, Pack 1

Agenda item: 7.2

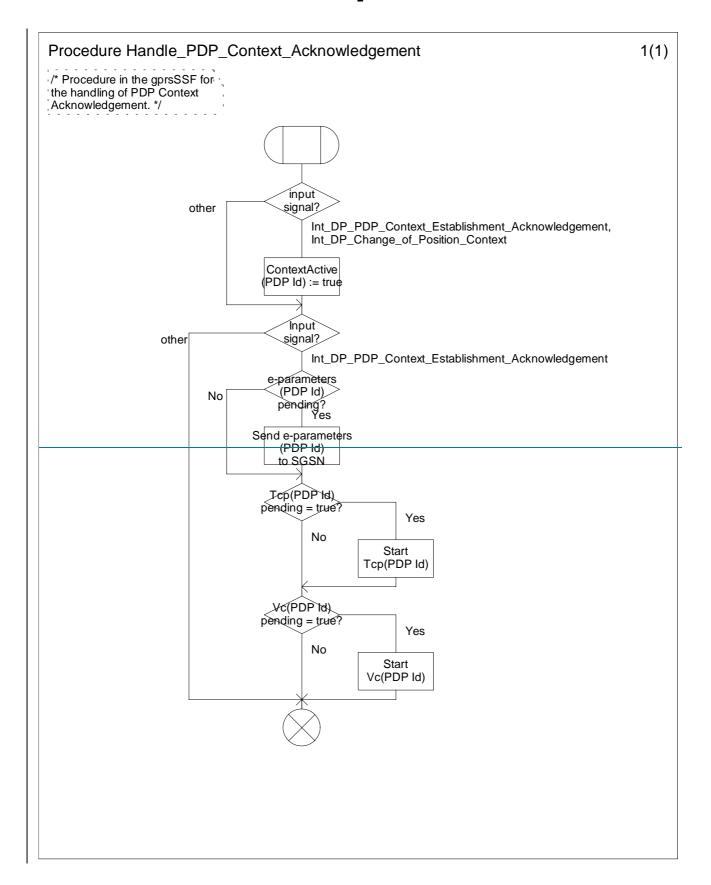
Document for: APPROVAL

Introduction:

This document contains 6 CRs on R99 and Rel-4 Work Item "CAMEL3", that have been agreed by TSG CN WG2, and are forwarded to TSG CN Plenary meeting #13 for approval.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
23.078	310	1	N2-010525	R99	Correction of error implementing CR 23.078-194r3	F	3.9.0
23.078	311		N2-010526	Rel-4	Correction of error implementing CR 23.078-194r3	Α	4.1.0
23.078	312	2	N2-010596	R99	Possible information in Initial DP	F	3.9.0
23.078	313	1	N2-010597	Rel-4	Possible information in Initial DP	A	4.1.0
23.078	317	1	N2-010577	R99	Correction of CUG information handling	F	3.9.0
23.078	318	1	N2-010578	Rel-4	Correction of CUG information handling	A	4.1.0

	CHANGE REQUEST
X	23.078 CR 310
For <u>HELP</u> on u	using this form, see bottom of this page or look at the pop-up text over the X symbols.
Proposed change	affects: 第 (U)SIM ME/UE Radio Access Network Core Network X
Title:	Correction of error implementing CR 23.078-194r3
Source: #	Rapporteur
Work item code: ₩	CAMEL3 Date: # 4 July 2001
Category: Ж	F (Correction of error implementing an approved CR) Release: R99
	Use one of the following categories:Use one of the following releases:F (correction)2(GSM Phase 2)A (corresponds to a correction in an earlier release)R96 (Release 1996)B (addition of feature),R97 (Release 1997)C (functional modification of feature)R98 (Release 1998)D (editorial modification)R99 (Release 1999)Detailed explanations of the above categories canREL-4 (Release 4)be found in 3GPP TR 21.900.REL-5 (Release 5)
December of an alternation	e: # Error occured in implemetation of CR 23.078-194r3.
Summary of change	
Consequences if not approved:	# Inconsistency remains. Strictly speaking, no procedure called "Handle_PDP_Acknowledgement" would be defined.
Clauses affected:	光 6
Other specs affected:	Contractions Test specifications O&M Specifications
Other comments:	*



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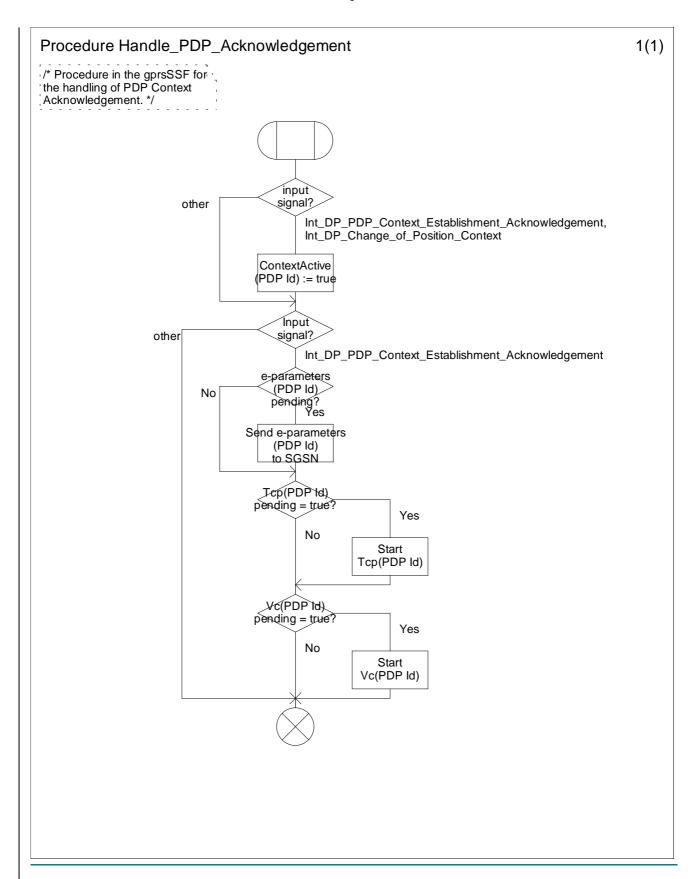
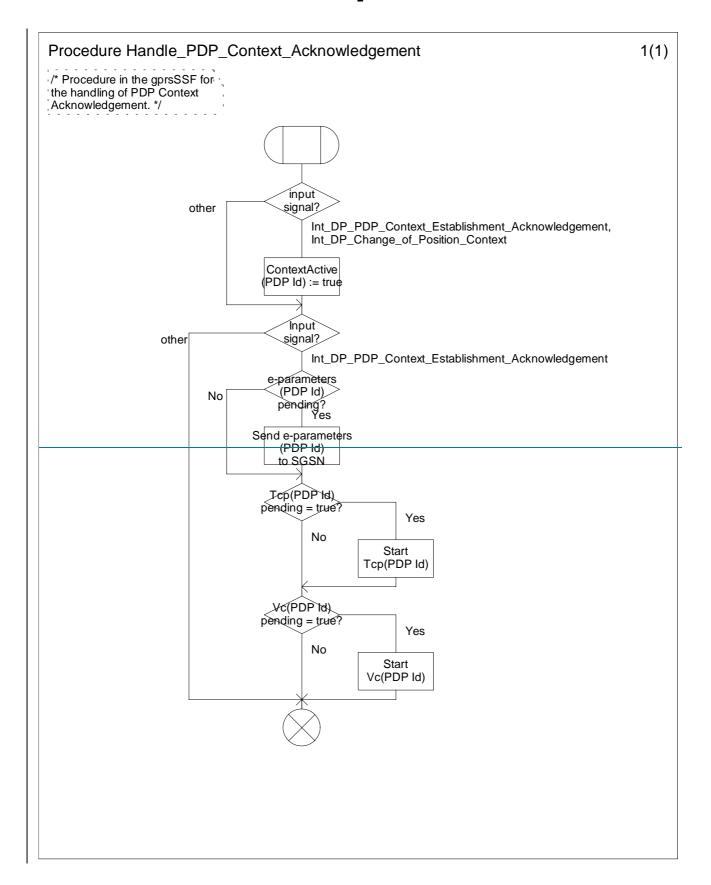


Figure 6.24a: Procedure <u>Handle_PDP_AcknowledgementContext_Disconnection</u> (sheet 1)

	CHANGE REQUEST											
ж	23.0	78	CR <mark>311</mark>		X	ev	_	¥	Current ver	sion:	4.1.0	X
For <u>HELP</u> on u	sing th	is forn	n, see botto	om of this	s page	or Ic	ook a	t the	e pop-up tex	t over	rthe ₩ sy	mbols.
Proposed change affects: (U)SIM ME/UE Radio Access Network Core Network ▼												
Title: 第	Corre	ection	of error im	plementi	ng CR	23.0	78-1	94r	3			
Source: #	Rapp	orteu	r									
Work item code: ₩	CAM	EL3							Date: 8	€ 4 .	luly 2001	
Category: # A Use one of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21,900. Release: # Rel-4 Use one of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5))))			
Reason for change	e: # E	rror o	ccured in ir	nplemeta	ation o	of CR	23.0	78-	194r3.			
Summary of chang	ge:#	Proce		change	on the				nd the title	of the	figure cha	ange as
Consequences if not approved:	S				edure o	called	l "Hai	ndle	PDP Ack	nowle	dgement"	would be
Clauses affected:	H	6										
Other specs affected:	# _	Tes	ner core spe st specifica M Specifica	tions	ns	¥						
Other comments:						_						



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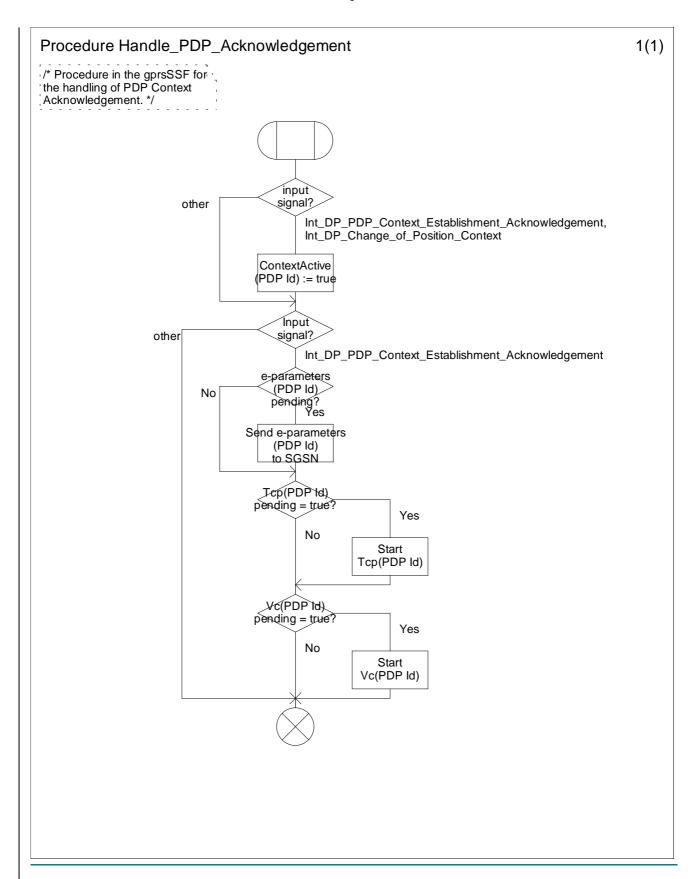


Figure 6.24a: Procedure <u>Handle_PDP_AcknowledgementContext_Disconnection</u> (sheet 1)

	CHANGE REQUEST	Form-v4
*	23.078 CR 317 # rev 1 # Current version: 3.9.0 #	
For <u>HELP</u> on u	ing this form, see bottom of this page or look at the pop-up text over the ₩ symbol	ls.
Proposed change	ffects: # (U)SIM ME/UE Radio Access Network Core Netwo	rk X
Title: ♯	Correction of CUG information handling	
Source: #	Siemens AG	
Work item code: ₩	CAMEL3 Date: # 11 July 2001	
Category:	F (Essential Correction) Use one of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification) D (editorial modification) C (found in 3GPP TR 21.900). Release: R99 Use one of the following release. 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)	s:
Reason for change	# SDLs for MT call, the procedures CAMEL_MT_GMSC_INIT (SDL 3(8)) and CAMEL_ICH_MSC_INIT (SDL 3(5)) allow CUG modification after receiving Int_Connect, however the description in 4.7.4 "Closed User Group" also allow CUG modification after receiving Continue With Argument message.	'S
Summary of chang	Delete "continue with argument" for MT and VT call and clearly indicate that a connect message is allowed.	only
Consequences if not approved:	Inconsistency and error description would remain.	
Clauses affected:	8 4.7.4	
Other specs affected:	# Other core specifications # Test specifications O&M Specifications	
Other comments:	置 This CR includes an editorial correction in the same subclause.	

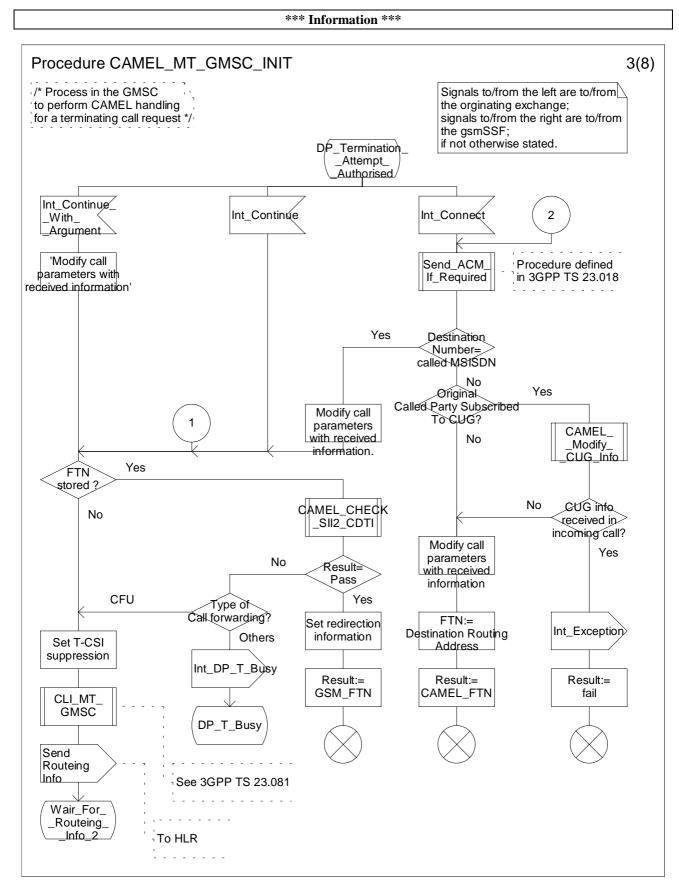


Figure Error! Reference source not found.c: Procedure CAMEL_MT_GMSC_INIT (sheet 1)

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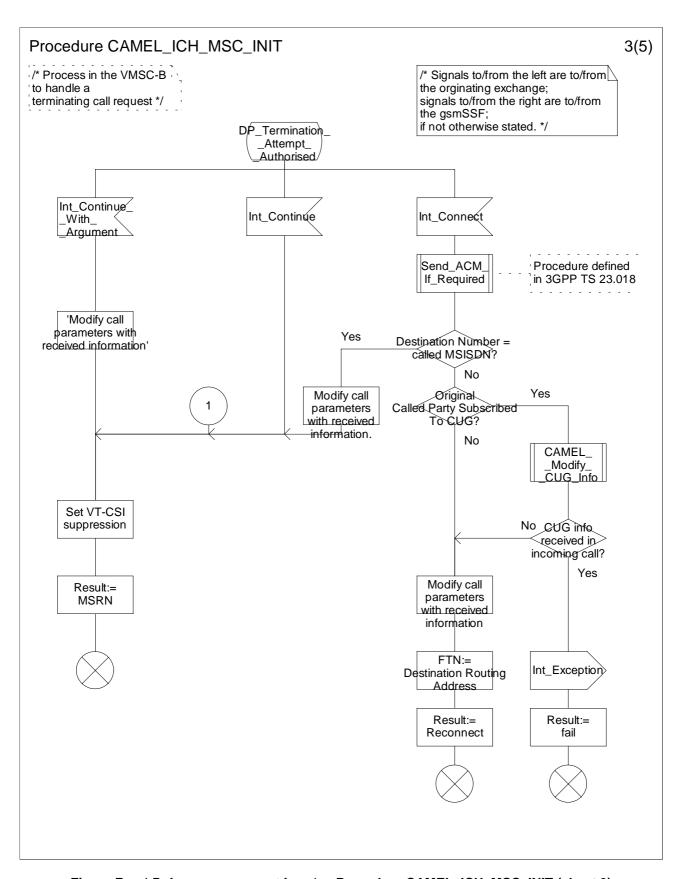


Figure Error! Reference source not found.c: Procedure CAMEL_ICH_MSC_INIT (sheet 3)

*** Modified part ***

4.7.4 Closed User Group

For a CUG subscriber with CAMEL services:

- The HLR shall store (and transfer to the VLR) the necessary subscriber data to ensure that the served subscriber is not unnecessarily prevented by CUG constraints from originating calls.
- The HLR shall store the necessary subscriber data to ensure that the served subscriber is not unnecessarily prevented by CUG constraints from receiving calls.

For an MO or MF call, the CUG information for that call shall be sent to the gsmSCF in the Initial DP.

If the gsmSCF returns a Continue message, the call shall continue with the original CUG information unchanged.

If the gsmSCF returns a Connect or Continue With Argument message, the CUG handling in table **Error! Reference source not found.** 1 applies.

Table Error! Reference source not found..1: CUG handling -on receipt of Connect or Continue With Argument for an MO or MF call

CUG parameters in message	Handling				
Non-CUG call (note 1)	Remove CUG information for the call and continue				
	as a non-CUG call				
CUG information (note 2)	Call shall continue with modified CUG information				
No CUG information	Call shall continue with original CUG information				
NOTE 1: Received in Service Int					
NOTE 2: CUG information consists of at least one of CUG Interlock Code and					
Outgoing Access Indica	ator.				

For an MT or VT call which is to be routed to the terminating subscriber, the CUG information shall be extracted from the incoming ISUP IAM and sent to the gsmSCF in the Initial DP, but the gsmSCF shall not have the ability to change the CUG information for the call.

For an MT or VT call which is <u>subject</u> to <u>be CAMEL</u> forward<u>inged under CAMEL control at DP</u>

<u>Terminating Attempt Authorised</u>, <u>if</u> the gsmSCF <u>shall</u> returns a Connect <u>or Continue With Argument message</u>, <u>then</u>
the CUG information is extracted and the CUG handling in table **Error! Reference source not found.** 1 applies.

	CHANGE REQUEST											
*	23.078 CR 318											
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the % symbols.												
Proposed change affects: # (U)SIM ME/UE Radio Access Network Core Network X												
Title: ೫	Correction of CUG information handling											
Source: #	Siemens AG											
Work item code: ₩	CAMEL3 Date: # 11 July 2001											
	Release: Release: Rel-4 Use one of the following categories: Use one of the following releases: Correction) Corresponds to a correction in an earlier release) Release 1996) Release 1997) Release 1998) Corresponds to a correction in an earlier release) Release 1997) Release 1998) Release 1999) Retailed explanations of the above categories can release 1999) Retailed explanations of the above categories can release 1999) Retailed explanations of the above categories can release 1999) Retailed explanations of the above categories can release 1999)	:										
Reason for change:	** SDLs for MT call, the procedures CAMEL_MT_GMSC_INIT (SDL 3(8)) and CAMEL_ICH_MSC_INIT (SDL 3(5)) allow CUG modification after receiving Int_Connect, however the description in 4.7.4 "Closed User Group" also allows CUG modification after receiving Continue With Argument message.											
Summary of change	Delete "continue with argument" for MT and VT call and clearly indicate that o a connect message is allowed.	nly										
Consequences if not approved:	# Inconsistency and error description would remain.											
Clauses affected:	* 4.7.4											
Other specs affected:	# Other core specifications # Test specifications O&M Specifications											
Other comments:	# This CR includes an editorial correction in the same subclause.											

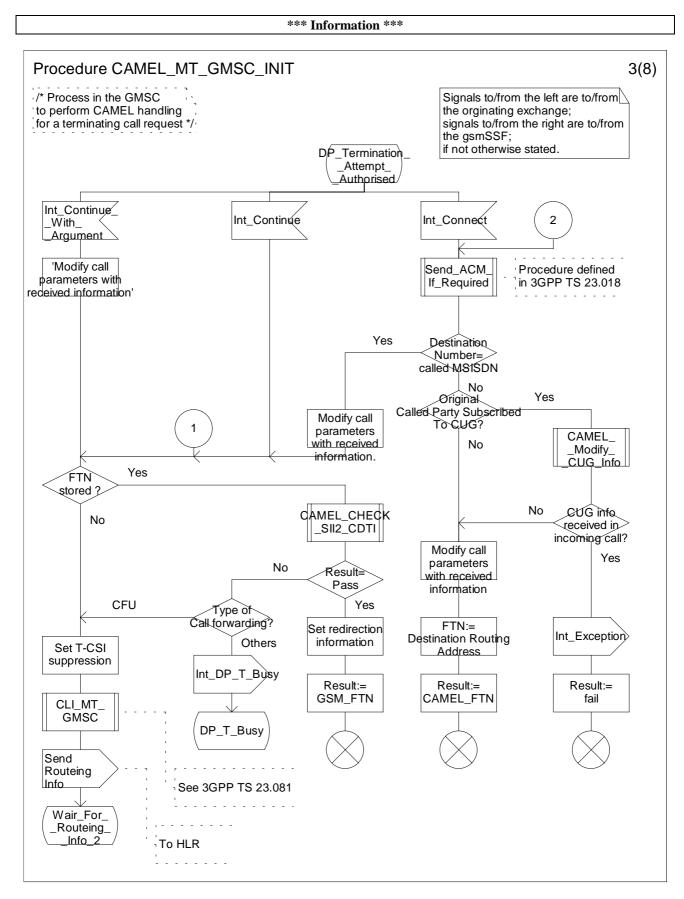


Figure Error! Reference source not found.c: Procedure CAMEL_MT_GMSC_INIT (sheet 1)

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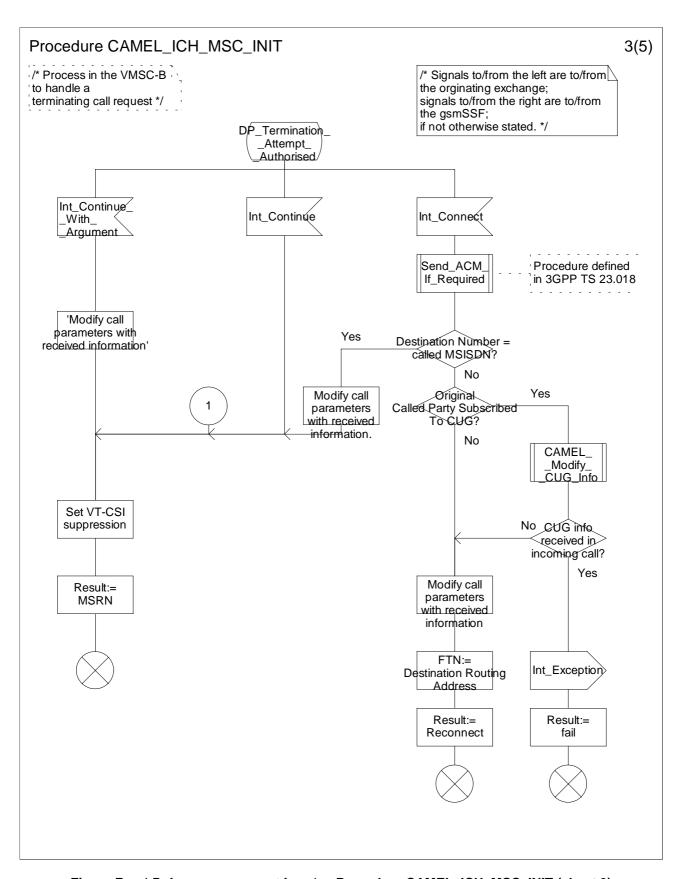


Figure Error! Reference source not found.c: Procedure CAMEL_ICH_MSC_INIT (sheet 3)

*** Modified part ***

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If the gsmSCF returns a Connect or Continue With Argument message, the CUG handling in table **Error! Reference source not found.** 1 applies.

Table Error! Reference source not found..1: CUG handling -on receipt of Connect or Continue With Argument for an MO or MF call

CUG parameters in message	Handling				
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NOTE 1: Received in Service Int					
NOTE 2: CUG information consists of at least one of CUG Interlock Code and					
Outgoing Access Indica	ator.				

For an MT or VT call which is to be routed to the terminating subscriber, the CUG information shall be extracted from the incoming ISUP IAM and sent to the gsmSCF in the Initial DP, but the gsmSCF shall not have the ability to change the CUG information for the call.

For an MT or VT call which is <u>subject</u> to <u>be CAMEL</u> forward<u>inged under CAMEL control at DP</u>

<u>Terminating Attempt Authorised</u>, <u>if</u> the gsmSCF <u>shall</u> returns a Connect <u>or Continue With Argument message</u>, <u>then</u> the CUG information is extracted and the CUG handling in table **Error! Reference source not found.**.1 applies.

	CHANGE REQUEST									
*	23.078 CR 312									
For <u>HELP</u> on us	sing this form, see bottom of this page or look at the pop-up text over the \(\mathbb{K} \) symbols.									
Proposed change affects:										
Title: 第	Possible information in Initial DP									
Source: #	Siemens AG									
Work item code: ₩	CAMEL3 Date: Date: 12 July 2001									
	F (essential correction) Use one of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) P (editorial modification) D (editorial modification) D (editorial modification) P (Release 1998) R99 (Release 1999) R99 (Release 1999) R90 (Release 1999) R91 (Release 1999) R92 (Release 1999) R93 (Release 1999) R94 (Release 1999) R95 (Release 1999) R97 (Release 1999) R98 (Release 1999) R99 (Release 1999) R81 (Release 1999) R81 (Release 1999) R81 (Release 1999) R81 (Release 1999)									
Reason for change.	In the case of the TDP Collected_Infor, it is possible that four information elements, Additional Calling Party Number, Original Called Party ID, Redirecting Party ID and Redirection Information, are received from the gsmSCF in CONNECT operation. In this case, these elements shall be sent in the subsequent Initial DP due to the TDP Analysed_Info.									
Summary of change	e: # Change the attributes of the IEs above to "C" (conditional) from "-" (not applicable)									
Consequences if not approved:	When these IEs were sent by the gsmSCF, D-CSI and/or N-CSI dialogue would not be able to use the information.									
Clauses affected: Other specs	# 4.6.1.5 (Initial DP) # ☐ Other core specifications # ☐ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■									
affected:	Test specifications O&M Specifications									
Other comments:	x									

4.6.1.5 Initial DP

4.6.1.5.1 Description

This IF is generated by the gsmSSF when a trigger is detected at a DP in the BCSM, to request instructions from the gsmSCF.

4.6.1.5.2 Information Elements

The following information elements are required:

Information element name	MO	MF	MT	VT	Description
Additional Calling Party	<u>-C</u>	С	С	С	The calling party number provided by the access signalling
Number					system of the calling user or received from the gsmSCF
Dogge Conchility	N 4	С	С	С	due to the previous CAMEL processing.
Bearer Capability	М	C			This IE indicates the type of the bearer capability connection to the user.
Called Party Number	С	М	М	М	This IE contains the number used to identify the called
Called Farty Number		IVI	IVI	IVI	party in the forward direction.
					For the MO and MF calls this parameter is used in the case
					of TDP Route_Select_Failure (this is the destination
					number used to route the call) and in the case of TDP Busy
					and TDP No Reply (this is the MSISDN when the
					destination number used for the call is a MSRN, or in the case of unsuccessful establishment received from the HLR
					via MAP interface, otherwise it is the number used to route
					the call).
					For the VT calls when there is no forwarding pending this is
					the MSISDN received in the Provide Roaming Number; if
					the MSISDN is not available, the basic MSISDN is used.
					For the MT and VT call case when there is call forwarding or call deflection pending, this is the MSISDN, i.e. not the
					forwarded-to or deflected-to number.
Called Party BCD Number	С	-	-	-	This IE contains the number used to identify the called
,					party in the forward direction. It is used for MO call in all
					cases except in the case of TDP Route_Select_Failure.
					For the TDP Collected_Information, the number contained
					in this IE shall be identical to the number received over the
					access network. It may e.g. include service selection information, such as * and # digits, or carrier selection
					information dialled by the subscriber.
					For the TDP Analysed_Information, the number contained
					in this IE shall be the dialled number received over the
					network access or received from a gsmSCF in a
					CONNECT operation, service selection information, such
					as * and # digits may be present (see subclause 4.2.1.2.2), carrier selection information dialled by the subscriber is not
					present.
Calling Party Number	М	С	С	С	This IE carries the calling party number to identify the
					calling party or the origin of the call.
Calling Party Category	М	С	С	С	Indicates the type of calling party (e.g., operator, pay
0.110					phone, ordinary subscriber).
CallGap Encountered	С	С	С	С	This parameter indicates the type of gapping the related
					call have been subjected to. This parameter shall be present only if a call gapping
					context is applicable to the initialDP operation.
Call Reference Number	М	М	М	М	This IE may be used by the gsmSCF for inclusion in a
					network optional gsmSCF call record. It has to be coupled
					with the identity of the MSC which allocated it in order to
					define unambiguously the identity of the call. For MO calls, the call reference number is set by the
					serving VMSC and included in the MO call record.
					For MT calls, the call reference number is set by the GMSC
					and included in the RCF call record in the GMSC and in the
					MT call record in the terminating MSC.
					For VT calls, the call reference number is set by the GMSC
					and included in the RCF call record in the GMSC and in the
					MT call record in the terminating MSC. For CF calls, the call reference number is set by the GMSC
					and included in the CF record in the forwarding MSC.
Cause	С	С	С	С	This IE indicates the cause specific to the armed BCSM DP
					event. This IE is applicable to DP Route_Select_Failure
					and DP T_Busy. The cause may be used by the SCF to
					decide about the further handling of the call.

Information element name	МО	MF	MT	VT	Description
Event Type BCSM	М	М	М	М	This IE indicates the armed BCSM DP event, resulting in the Initial DP IF.
Ext-Basic Service Code	С	С	С	С	This IE indicates the type of basic service i.e., teleservice or bearer service.
High Layer Compatibility	С	С	С	С	This IE indicates the type of the high layer compatibility, which will be used to determine the ISDN-teleservice of a connected ISDN terminal.
IMSI	М	М	М	М	This IE identifies the mobile subscriber.
IP SSP Capabilities	С	С	С	С	This IE indicates which SRF resources are supported within the gsmSSF and are available. If this IE is absent, this indicates that no gsmSRF is attached and available.
Location Information	M	-	C	M	This IE is described in the next table.
Location Number	M	С	С	С	For mobile originated calls this IE represents the location of the calling party. For all other call scenarios this IE contains the location number received in incoming ISUP signalling.
MSC Address	M	M	М	M	For MO calls, the MSC Address carries the international E.164 address of the serving VMSC. For MT calls, the MSC Address carries the international E.164 address of the GMSC. For VT calls, the MSC Address carries the international E.164 address of the serving VMSC. For CF calls, the MSC Address carries the international E.164 address of the forwarding MSC.
GMSC Address	-	M	-	M	For CF calls, the GMSC Address carries the international E.164 address of the GMSC. For VT calls, the GMSC Address carries the international E.164 address of the GMSC.
Carrier	С	С	С	С	The content of this IE is described in the next table. The IE may be sent when the VPLMN and the HPLMN of the subscriber are both North American. For MO calls, this IE shall contain any carrier that was dialled by the calling subscriber. If no carrier was dialled, the IE shall contain the calling subscriber's subscribed carrier. For MT and VT calls, the IE shall contain the carrier subscribed to by the called subscriber. For CF calls, the IE shall contain the carrier subscribed to by the forwarding subscriber.
Original Called Party ID	<u>-C</u>	С	С	С	This IE carries the dialled digits if the call has met call forwarding on the route to the gsmSSF. This IE shall also be sent if it was received from the gsmSCF due to the previous CAMEL processing.
Redirecting Party ID	<u>-C</u>	С	С	С	This IE indicates the directory number the call was redirected from. This IE shall also be sent if it was received from the gsmSCF due to the previous CAMEL processing.
Redirection Information	<u>-C</u>	С	С	С	This IE contains forwarding related information, such as redirection counter. This IE shall also be sent if it was received from the gsmSCF due to the previous CAMEL processing.
Service Key	М	М	М	M	This IE indicates to the gsmSCF the requested CAMEL Service. It is used to address the required application/SLP within the gsmSCF.
Subscriber State	-	-	С	С	This IE indicates the status of the MS. The states are: - CAMELBusy: The MS is engaged on a transaction for a mobile originating or terminated circuit-switched call. - NetworkDeterminedNotReachable: The network can determine from its internal data that the MS is not reachable. - AssumedIdle: The state of the MS is neither "CAMELBusy" nor "NetworkDeterminedNotReachable". - Not provided from VLR.
Time And Timezone	М	М	М	М	This IE contains the time that the gsmSSF was triggered, and the time zone the gsmSSF resides in.

Information element name	MO	MF	MT	VT	Description
GSM Forwarding Pending	-	-	С	С	This parameter indicates that a forwarded-to-number was received and the call will be forwarded due to GSM supplementary service call forwarding in the GMSC/VMSC. This parameter is present in the following cases: - When the FTN is received from the HLR prior to triggering in the Terminating_Attempt_Authorised DP. - When a conditional call forwarding or call deflection is invoked in the GMSC/MSC, and T_Busy or T_No_answer is reported as a TDP.
Service Interaction Indicators Two	С	С	С	С	This IE is sent if it is received in the ISUP message or due to previous CAMEL processing. The IE is described in a table below.
CUG Index	С	-	-	-	See 3GPP TS 23.085 [9] for details of this IE.
CUG Interlock Code	С	С	С	С	See 3GPP TS 23.085 [9] for details of this IE. The latest available data shall be used, i.e., if the CUG data which had been obtained in the ISUP IAM or from the VLR has been modified by the previous Connect or Continue With Argument IF, this modified data shall be used.
Outgoing Access Indicator	С	С	С	С	See 3GPP TS 23.085 [9] for details of this IE. In the MO case this IE is received from the VLR.

- M Mandatory (The IE shall always be sent).
- C Conditional (The IE shall be sent, if available).
- Not applicable.

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

Information element name	MO	MF	MT	VT	Description
Location Number	-	-	С	С	See 3GPP TS 23.018 [3].
Service area ID	C2	-	C2	C2	See 3GPP TS 23.018 [3].
Cell ID	C2	-	C2	C2	See 3GPP TS 23.018 [3].
Geographical information	С	-	С	С	See 3GPP TS 23.018 [3].
Geodetic information	С	-	С	С	See 3GPP TS 23.018 [3].
VLR number	M	-	С	М	See 3GPP TS 23.018 [3].
Age Of location information	M	-	С	С	See 3GPP TS 23.018 [3].
Current Location Retrieved	-	-	-	-	Not applicable
Location area ID	C2	-	C2	C2	See 3GPP TS 23.003 [37].
Selected LSA Identity	C1	-	C1	C1	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].

- M Mandatory (The IE shall always be sent).
- C Conditional (The IE shall be sent, if available. Further conditions are in the description column.).
- C1 Conditional (The IE shall be sent, if available and SoLSA is supported).
- C2 Conditional (One and only one of the three conditional IEs shall be sent).
- Not applicable.

Carrier contains the following information:

Information element name	MO	MF	MT	VT	Description
Carrier Identification Code	M	M	M	М	This IE uniquely identifies a North American long distance
					carrier.
Carrier Selection Information	M	M	M	M	This IE indicates the way the carrier was selected e.g.:
					- dialled
					- subscribed

M Mandatory (The IE shall always be sent).

Service Interaction Indicators Two contains the following information:

Information element name	MO	MF	MT	VT	Description
Forward Service Interaction Indicator	С	С	С	С	This IE is described in a table below.
HOLD Treatment Indicator	С	-	-	С	This IE indicates whether the CAMEL subscriber can invoke HOLD for the call.
CW Treatment Indicator	С	-	-	С	This IE indicates whether CW can be applied for a call to the CAMEL subscriber whilst this call is ongoing.
ECT Treatment Indicator	С	1	1		This IE indicates whether the call leg can become part of an ECT call initiated by the calling subscriber.

C Conditional (The IE shall be sent, if available).

Forward Service Interaction Indicator contains the following information:

Information element name	MO	MF	MT	VT	Description
Conference Treatment Indicator	С	С	С	С	This IE indicates whether the call leg can become part of a MPTY call initiated by the called subscriber.
Call Diversion Treatment Indicator	С	С	С	С	This IE indicates whether the call can be forwarded using the Call Forwarding or Call Deflection Supplementary
					Services.

C Conditional (The IE shall be sent, if available).

⁻ Not applicable.

	CHANGE REQUEST	CR-Form-v4						
*	23.078 CR 313 # rev 1 # C	Current version: 4.1.0 **						
For <u>HELP</u> on usi	ng this form, see bottom of this page or look at the p	pop-up text over the 🛱 symbols.						
Proposed change af	fects:	ess Network Core Network X						
Title: 第	Possible information in Initial DP							
Source: #	Siemens AG							
Work item code: ₩	CAMEL3	Date: 第 12 July 2001						
	Release: Release: Rel-4 Use one of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Release: Use one of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Ratiled explanations of the above categories can found in 3GPP TR 21.900.							
Reason for change:	ge: In the case of the TDP Collected_Infor, it is possible that four information elements, Additional Calling Party Number, Original Called Party ID, Redirecting Party ID and Redirection Information, are received from the gsmSCF in CONNECT operation. In this case, these elements shall be sent in the subsequent Initial DP due to the TDP Analysed_Info.							
Summary of change	Change the attributes of the IEs above to "C" (applicable)	(conditional) from "-" (not						
Consequences if not approved:	When these IEs were sent by the gsmSCF, D-CSI and/or N-CSI dialogue would not be able to use the information.							
Clauses affected:	策 4.6.1.5 (Initial DP)							
Other specs affected:	# Other core specifications # Test specifications O&M Specifications							
Other comments:	x							

4.6.1.5 Initial DP

4.6.1.5.1 Description

This IF is generated by the gsmSSF when a trigger is detected at a DP in the BCSM, to request instructions from the gsmSCF.

4.6.1.5.2 Information Elements

The following information elements are required:

Information element name	MO	MF	MT	VT	Description
Additional Calling Party	<u> </u>	С	С	С	The calling party number provided by the access signalling
Number					system of the calling user or received from the gsmSCF
Dogge Conchility	N 4	С	С	С	due to the previous CAMEL processing.
Bearer Capability	М	C			This IE indicates the type of the bearer capability connection to the user.
Called Party Number	С	М	М	М	This IE contains the number used to identify the called
Called Farty Number		IVI	IVI	IVI	party in the forward direction.
					For the MO and MF calls this parameter is used in the case
					of TDP Route_Select_Failure (this is the destination
					number used to route the call) and in the case of TDP Busy
					and TDP No Reply (this is the MSISDN when the
					destination number used for the call is a MSRN, or in the case of unsuccessful establishment received from the HLR
					via MAP interface, otherwise it is the number used to route
					the call).
					For the VT calls when there is no forwarding pending this is
					the MSISDN received in the Provide Roaming Number; if
					the MSISDN is not available, the basic MSISDN is used.
					For the MT and VT call case when there is call forwarding or call deflection pending, this is the MSISDN, i.e. not the
					forwarded-to or deflected-to number.
Called Party BCD Number	С	-	-	-	This IE contains the number used to identify the called
, , , , , , , , , , , , , , , , , , , ,					party in the forward direction. It is used for MO call in all
					cases except in the case of TDP Route_Select_Failure.
					For the TDP Collected_Information, the number contained
					in this IE shall be identical to the number received over the
					access network. It may e.g. include service selection information, such as * and # digits, or carrier selection
					information dialled by the subscriber.
					For the TDP Analysed_Information, the number contained
					in this IE shall be the dialled number received over the
					network access or received from a gsmSCF in a
					CONNECT operation, service selection information, such
					as * and # digits may be present (see subclause 4.2.1.2.2), carrier selection information dialled by the subscriber is not
					present.
Calling Party Number	М	С	С	С	This IE carries the calling party number to identify the
					calling party or the origin of the call.
Calling Party Category	М	С	С	С	Indicates the type of calling party (e.g., operator, pay
0.110					phone, ordinary subscriber).
CallGap Encountered	С	С	С	С	This parameter indicates the type of gapping the related
					call have been subjected to. This parameter shall be present only if a call gapping
					context is applicable to the initialDP operation.
Call Reference Number	М	М	М	М	This IE may be used by the gsmSCF for inclusion in a
					network optional gsmSCF call record. It has to be coupled
					with the identity of the MSC which allocated it in order to
					define unambiguously the identity of the call. For MO calls, the call reference number is set by the
					serving VMSC and included in the MO call record.
					For MT calls, the call reference number is set by the GMSC
					and included in the RCF call record in the GMSC and in the
					MT call record in the terminating MSC.
					For VT calls, the call reference number is set by the GMSC
					and included in the RCF call record in the GMSC and in the
					MT call record in the terminating MSC. For CF calls, the call reference number is set by the GMSC
					and included in the CF record in the forwarding MSC.
Cause	С	С	С	С	This IE indicates the cause specific to the armed BCSM DP
		-			event. This IE is applicable to DP Route_Select_Failure
					and DP T_Busy. The cause may be used by the SCF to
					decide about the further handling of the call.

Information element name	МО	MF	MT	VT	Description
Event Type BCSM	М	М	М	М	This IE indicates the armed BCSM DP event, resulting in the Initial DP IF.
Ext-Basic Service Code	С	С	С	С	This IE indicates the type of basic service i.e., teleservice or bearer service.
High Layer Compatibility	С	С	С	С	This IE indicates the type of the high layer compatibility, which will be used to determine the ISDN-teleservice of a connected ISDN terminal.
IMSI	М	М	М	М	This IE identifies the mobile subscriber.
IP SSP Capabilities	С	С	С	С	This IE indicates which SRF resources are supported within the gsmSSF and are available. If this IE is absent, this indicates that no gsmSRF is attached and available.
Location Information	M	-	C	M	This IE is described in the next table.
Location Number	М	С	С	С	For mobile originated calls this IE represents the location of the calling party. For all other call scenarios this IE contains the location number received in incoming ISUP signalling.
MSC Address	M	M	М	M	For MO calls, the MSC Address carries the international E.164 address of the serving VMSC. For MT calls, the MSC Address carries the international E.164 address of the GMSC. For VT calls, the MSC Address carries the international E.164 address of the serving VMSC. For CF calls, the MSC Address carries the international E.164 address of the forwarding MSC.
GMSC Address	-	M	-	М	For CF calls, the GMSC Address carries the international E.164 address of the GMSC. For VT calls, the GMSC Address carries the international E.164 address of the GMSC.
Carrier	С	С	С	С	The content of this IE is described in the next table. The IE may be sent when the VPLMN and the HPLMN of the subscriber are both North American. For MO calls, this IE shall contain any carrier that was dialled by the calling subscriber. If no carrier was dialled, the IE shall contain the calling subscriber's subscribed carrier. For MT and VT calls, the IE shall contain the carrier subscribed to by the called subscriber. For CF calls, the IE shall contain the carrier subscribed to by the forwarding subscriber.
Original Called Party ID	<u>-C</u>	С	С	С	This IE carries the dialled digits if the call has met call forwarding on the route to the gsmSSF. This IE shall also be sent if it was received from the gsmSCF due to the previous CAMEL processing.
Redirecting Party ID	<u>-C</u>	С	С	С	This IE indicates the directory number the call was redirected from. This IE shall also be sent if it was received from the gsmSCF due to the previous CAMEL processing.
Redirection Information	<u>-C</u>	С	С	С	This IE contains forwarding related information, such as redirection counter. This IE shall also be sent if it was received from the gsmSCF due to the previous CAMEL processing.
Service Key	М	М	M	M	This IE indicates to the gsmSCF the requested CAMEL Service. It is used to address the required application/SLP within the gsmSCF.
Subscriber State	-	-	С	С	This IE indicates the status of the MS. The states are: - CAMELBusy: The MS is engaged on a transaction for a mobile originating or terminated circuit-switched call. - NetworkDeterminedNotReachable: The network can determine from its internal data that the MS is not reachable. - AssumedIdle: The state of the MS is neither "CAMELBusy" nor "NetworkDeterminedNotReachable". - Not provided from VLR.
Time And Timezone	М	М	М	М	This IE contains the time that the gsmSSF was triggered, and the time zone the gsmSSF resides in.

Information element name	MO	MF	MT	VT	Description
GSM Forwarding Pending	-	-	С	С	This parameter indicates that a forwarded-to-number was received and the call will be forwarded due to GSM supplementary service call forwarding in the GMSC/VMSC. This parameter is present in the following cases: - When the FTN is received from the HLR prior to triggering in the Terminating_Attempt_Authorised DP. - When a conditional call forwarding or call deflection is invoked in the GMSC/MSC, and T_Busy or T_No_answer is reported as a TDP.
Service Interaction Indicators Two	С	С	С	С	This IE is sent if it is received in the ISUP message or due to previous CAMEL processing. The IE is described in a table below.
CUG Index	С	-	-	-	See 3GPP TS 23.085 [9] for details of this IE.
CUG Interlock Code	С	С	С	С	See 3GPP TS 23.085 [9] for details of this IE. The latest available data shall be used, i.e., if the CUG data which had been obtained in the ISUP IAM or from the VLR has been modified by the previous Connect or Continue With Argument IF, this modified data shall be used.
Outgoing Access Indicator	С	С	С	С	See 3GPP TS 23.085 [9] for details of this IE. In the MO case this IE is received from the VLR.

- M Mandatory (The IE shall always be sent).
- C Conditional (The IE shall be sent, if available).
- Not applicable.

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

Information element name	MO	MF	MT	VT	Description
Location Number	-	-	С	С	See 3GPP TS 23.018 [3].
Service area ID	C2	-	C2	C2	See 3GPP TS 23.018 [3].
Cell ID	C2	-	C2	C2	See 3GPP TS 23.018 [3].
Geographical information	С	-	С	С	See 3GPP TS 23.018 [3].
Geodetic information	С	-	С	С	See 3GPP TS 23.018 [3].
VLR number	M	-	С	M	See 3GPP TS 23.018 [3].
Age Of location information	М	-	С	С	See 3GPP TS 23.018 [3].
Current Location Retrieved	-	-	-	-	Not applicable
Location area ID	C2	-	C2	C2	See 3GPP TS 23.003 [37].
Selected LSA Identity	C1	-	C1	C1	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].

- M Mandatory (The IE shall always be sent).
- C Conditional (The IE shall be sent, if available. Further conditions are in the description column.).
- C1 Conditional (The IE shall be sent, if available and SoLSA is supported).
- C2 Conditional (One and only one of the three conditional IEs shall be sent).
- Not applicable.

Carrier contains the following information:

Information element name	MO	MF	MT	VT	Description
Carrier Identification Code	M	M	M	М	This IE uniquely identifies a North American long distance
					carrier.
Carrier Selection Information	M	M	M	M	This IE indicates the way the carrier was selected e.g.:
					- dialled
					- subscribed

M Mandatory (The IE shall always be sent).

Service Interaction Indicators Two contains the following information:

Information element name	MO	MF	MT	VT	Description
Forward Service Interaction Indicator	С	С	С	С	This IE is described in a table below.
HOLD Treatment Indicator	С	-	-	С	This IE indicates whether the CAMEL subscriber can invoke HOLD for the call.
CW Treatment Indicator	С	-	-	С	This IE indicates whether CW can be applied for a call to the CAMEL subscriber whilst this call is ongoing.
ECT Treatment Indicator	С	1	1		This IE indicates whether the call leg can become part of an ECT call initiated by the calling subscriber.

C Conditional (The IE shall be sent, if available).

Forward Service Interaction Indicator contains the following information:

Information element name	MO	MF	MT	VT	Description
Conference Treatment Indicator	С	С	С	С	This IE indicates whether the call leg can become part of a MPTY call initiated by the called subscriber.
Call Diversion Treatment Indicator	С	С	С	С	This IE indicates whether the call can be forwarded using the Call Forwarding or Call Deflection Supplementary
					Services.

C Conditional (The IE shall be sent, if available).

⁻ Not applicable.