

3GPP TSG_CN
Plenary Meeting #8, Dusseldorf, Germany
21st – 23rd June 2000.

Tdoc NP-000320

Source: Siemens
Title: CR 23.078-yyy on Editorial modifications
Agenda item: 6.2.2
Document for: APPROVAL

This document contains a CR on Work Item CAMEL phase 3.

Spec	CR	Rev	CAT	Rel.	Old Ver	New Ver	Subject
23.078	183		D	R99	3.4.0	3.5.0	Editorial modifications

**3GPP TSG-CN #8 Plenary
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*e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx*

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

23.078 CR 183

Current Version: **3.4.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **CN#8**
list expected approval meeting # here
↑

for approval
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strategic
non-strategic *(for SMG use only)*

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: Siemens **Date:** 21 June 2000

Subject: Editorial modifications

Work item: CAMEL Phase 3

Category: <i>(only one category shall be marked with an X)</i>	F Correction	<input type="checkbox"/>	Release:	Phase 2	<input type="checkbox"/>
	A Corresponds to a correction in an earlier release	<input type="checkbox"/>		Release 96	<input type="checkbox"/>
	B Addition of feature	<input type="checkbox"/>		Release 97	<input type="checkbox"/>
	C Functional modification of feature	<input type="checkbox"/>		Release 98	<input type="checkbox"/>
	D Editorial modification	<input checked="" type="checkbox"/>		Release 99	<input checked="" type="checkbox"/>
				Release 00	<input type="checkbox"/>

Reason for change: Minor editorial modifications

Clauses affected: 6, 7, 9, 10

Other specs affected:	Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	
	Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	
	MS test specifications	<input type="checkbox"/>	→ List of CRs:	
	BSS test specifications	<input type="checkbox"/>	→ List of CRs:	
	O&M specifications	<input type="checkbox"/>	→ List of CRs:	

Other comments: This CR incorporate all the approved CRs by N2 where applicable.

***** First modified section *****

6 GPRS interworking

6.1 Architecture

6.1.1 Functional Entities used for CAMEL

This subclause describes the functional architecture needed to support GPRS interworking for CAMEL. Figure 6.1 shows the functional entities involved in a GPRS session requiring CAMEL support. The architecture is applicable to the third phase of CAMEL.

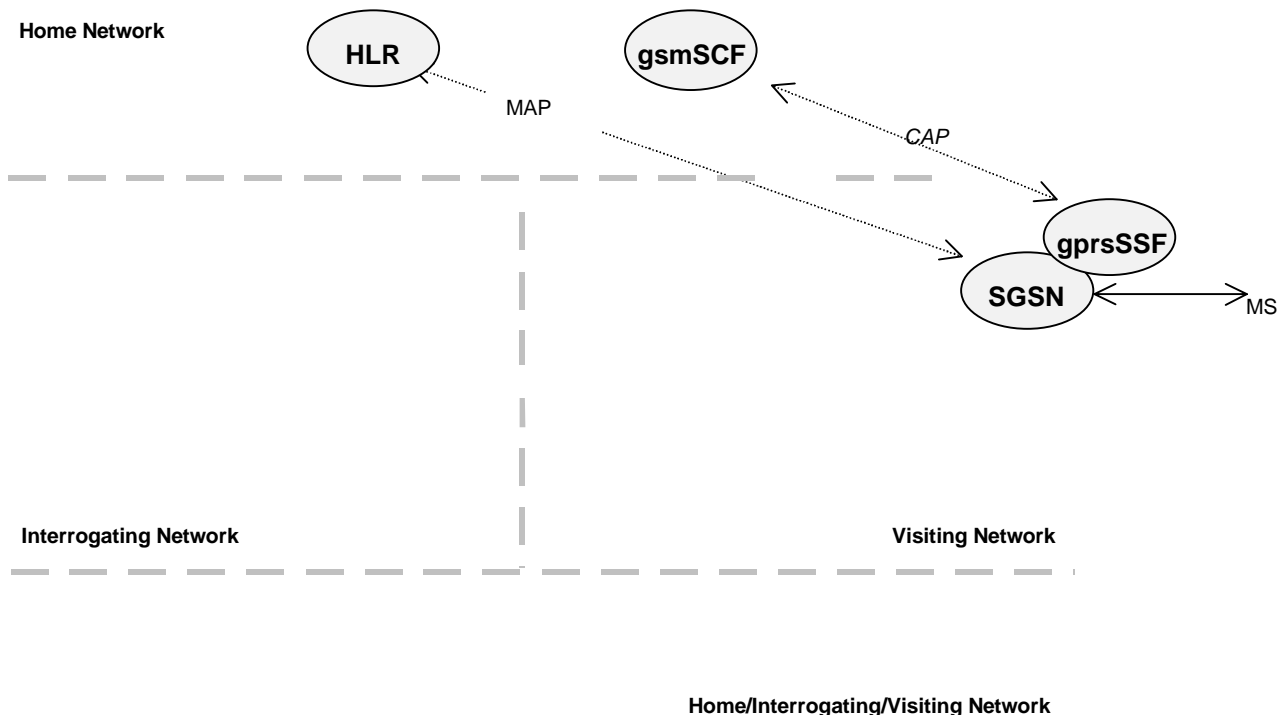


Figure 6.1 Functional architecture for support of CAMEL

HLR: The HLR stores for subscribers requiring CAMEL support the information relevant to the current subscription GPRS-CSI. The GPRS-CSI is stored in the HLR only. ~~The HLR may provide an interface towards the gsmSCF for the Any-Time Interrogation procedure.~~

CR editor's note: This description is for other clause. No more needed for this clause.

***** Next modified section *****

Table 1: Description of GPRS Attach/Detach DPs in the SGSN

CAMEL Detection Point:	DP Type	Description:
DP Attach	TDP-R	A request to attach is received.
DP Change of position GPRS session	TDP-R ¹⁾ , EDP-N; EDP-R	Routeing Area Update is accepted.
DP Detached	EDP-N, EDP-R	A detach request is received either from the MS, the SGSN or a 'Cancel Location' received from HLR or <u>Inter SGSN Routeing update occurred in the old SGSN.</u> CR editor's note: "the" inserted.
Note 1: Change of Position GPRS session is reported as TDP-R in the case of Inter-SGSN Routeing Area Update (provided that this DP is statically armed in GPRS-CSI). Change of Position GPRS session is reported as EDP-N in the case of Intra-SGSN Routeing Area Update (provided that this DP is dynamically armed by the Service Logic).		

***** Next modified section *****

6.6.1.2 Apply Charging Report GPRS

6.6.1.2.1 Description

This IF is used by the gprsSSF to report to the gsmSCF the information requested in the Apply Charging Report GPRS IF. In addition, this IF is used to notify the gsmSCF of user initiated change in QoS. Note that there are several possible QoS profiles defined by the combinations of the different QoS attributes as defined in 3G TS 23.060, ~~see reference~~ [11]. A PLMN may only support and charge on a limited subset of those QoS. It is recommended that changes in QoS are only reported in Apply Charging Report GPRS for those QoS profiles.

6.6.1.2.2 Information Elements

The following information elements are ~~required~~^{used}:

<u>Information element name</u>	<u>Required</u>	<u>Description</u>
Gprs Reference Number	M ^C	This IE consists of a number assigned by the gprsSSF and a number assigned by the gsmSCF. It is used for TCAP dialogue segmentation. Refer to 3G TS 29.078 [5] for the usage of this element. This IE contains an identifier that is allocated by the gprsSSF and it is used to identify the gprsSSF instance taking care of GPRS session or PDP context.
Charging Result	M	This IE contains the charging information for the PDP provided by the gsmSSF. It is a choice between elapsed time and data volume.
Quality of Service	C	This IE identifies the QoS requested by the user and granted by the SGSN due to 'Modify PDP Context request. This IE shall only be present if sending of the Apply Charging Report was triggered by a change in Quality of Service. This IE is described in the table below.
Active	M	This IE indicates if the GPRS session or PDP context is still established, or if it has been detached or deactivated.
PDP ID	C	This IE identifies the PDP context which the Apply Charging Report is applicable for. If not present the dialogue corresponds to the GPRS session or to one single PDP context.

M Mandatory (The IE shall always be sent).

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

Quality of Service contains the following information element:

<u>Information element name</u>	<u>Required</u>	<u>Description</u>
<u>Negotiated QoS</u>	<u>C</u>	<u>This IE identifies the QoS which was negotiated between the user, the SGSN and the GGSN, as a result of a 'Modify PDP Context' request. This IE shall be included only if sending of the Apply Charging Report was triggered by a change in Quality of</u>

		Service.
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[C Conditional \(The IE shall be sent, if available\).](#)

CR editor's note: Original text was "Quality of Service contains the following information elements" in CR 23.078-150r2. Since there is only one IE, "s" was deleted.

***** Next modified section *****

7.6.3.1 Delete Subscriber ~~D~~ata

CR editor's note: "D" capital letter as other clauses denote.

***** Next modified section *****

7.6.5.1 Delete Subscriber ~~D~~ata

CR editor's note: "D" capital letter as other clauses denote.

***** Next modified section *****

9.2.1.4.2 ~~gsmSCF address~~

~~Address to be used to access the gsmSCF for a particular subscriber. The address shall be an E.164 number to be used for routing.~~ This is the address of the gsmSCF where the Mobility Management event notification shall be sent to. The gsmSCF address is in E.164 format.

CR editor's note: Original text was "E164" in CR 23.078-156r1. Changed to "E.164".

***** Next modified section *****

10.3.1.3 Notify Subscriber Data Change response

10.3.1.3.1 Description

This IF is used by the gsmSCF to respond to the HLR of the change of subscriber data notify.

10.3.1.3.2 Information Elements

This IF contains no information elements.

CR editor's note: It was "No information elements" in CR 23.078-133r2.

***** End *****