

**3GPP TSG\_CN  
Plenary Meeting #9, Oahu, Hawaii  
20<sup>th</sup> – 22<sup>nd</sup> September 2000.**

**Tdoc NP-000484**

**Source:** TSG\_N WG 4  
**Title:** CRs to R00 Work Item CAMEL Phase 3  
**Agenda item:**  
**Document for:** APPROVAL

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**Introduction:**

This document contains 4 CRs on R00 Work Item CAMEL Phase 3, that have been agreed by TSG\_N WG4, and is forwarded to TSG\_N Plenary meeting #9 for approval.

SM	TDoc	SPEC	CR	REV	PHAS	VERS	SUBJECT	CAT
CN9	N4-000736	29.002	182		R00	4.0.1	Removal of LSAIdentity from NoteMM-EventArg	A
CN9	N4-000666	29.002	163	1	R00	4.0.1	Correction on Location Information	A
CN9	N4-000777	29.002	174	2	R00	4.0.1	Optionality of parameters in GPRS-CSI	A
CN9	N4-000779	29.002	188		R00	4.0.1	Clarification for segmentation of D-CSI and SMS-CSI	A

## CHANGE REQUEST

**29.002 CR 163r1**

Current Version: 4.0.1

For submission to: TSG-N#09

for approval   
for information

strategic   
non-strategic

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network

**Source:** N4 **Date:** 25<sup>th</sup> August 2000

**Subject:** Correction on Location Information

**Work item:** CAMEL Phase 3

<b>Category:</b>	F Correction	<input type="checkbox"/>	<b>Release:</b>	Phase 2	<input type="checkbox"/>
	A Corresponds to a correction in an earlier release	<input checked="" 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 type="checkbox"/>		Release 99	<input type="checkbox"/>
				Release 00	<input checked="" type="checkbox"/>

**Reason for change:** For Location Based CAMEL services, there was no way of knowing whether the MSC had provided the Cell Global ID or the Service Area Code. This causes a problem if, for example, a Cell Global ID of 1 indicates London, a Service Area Code of 1 indicates Edinburgh. A subscriber requesting location based information would be given inaccurate information. hence, the gsmSCF needs to know which information it is receiving.

**Clauses affected:** 7.6.2.37, 8.3.1 and 17.7.1

<b>Other specs affected:</b>	Other 3G core specifications	<input checked="" type="checkbox"/>	→ List of CRs:	R99: 29.002-162 (N4-000665)
	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:** The parameter defined in section 7.6.2.37 (Serving cell global Id or service area Id) is only used in section 8.3.1 (Process Access Request), so the name has been aligned.

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

7.6.2.37 Serving cell ~~global Id~~ ~~or service area Id~~

This parameter indicates the cell ~~or the service area~~ currently being used by the served subscriber.

**\*\*\*\* New Section \*\*\*\***

8.3.1 MAP\_PROCESS\_ACCESS\_REQUEST service

8.3.1.1 Definition

...

8.3.1.2 Service primitives

**Table 8.3/1: MAP\_PROCESS\_ACCESS\_REQUEST**

Parameter name	Request	Indication	Response	Confirm
Invoke Id	M	M(=)	M(=)	M(=)
CM service type	M	M(=)		
Access connection status	M	M(=)		
Current Location Area Id	M	M(=)		
Serving cell <u>id</u>	M	M(=)		
TMSI	C	C(=)		
Cksn	C	C(=)		
IMSI	C	C(=)	C	C(=)
IMEI	C	C(=)	C	C(=)
MSISDN			U	C(=)
User error			C	C(=)
Provider error				O

8.3.1.3 Parameter definitions and use

...

Serving cell id

See definition in subclause 7.6.2.

...

**\*\*\*\* Last Modified Section \*\*\*\***

17.7.1 Mobile Service data types

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·  
·

```

LocationInformation ::= SEQUENCE {
    ageOfLocationInformation      AgeOfLocationInformation      OPTIONAL,
    geographicalInformation       [0] GeographicalInformation    OPTIONAL,
    vlr-number                    [1] ISDN-AddressString        OPTIONAL,
    locationNumber                [2] LocationNumber            OPTIONAL,
    cellGlobalIdOrServiceAreaIdOrLAI [3] CellGlobalIdOrServiceAreaIdOrLAI OPTIONAL,
    extensionContainer            [4] ExtensionContainer        OPTIONAL,
    ... ,
    selectedLSA-Id                [5] LSAIdentity              OPTIONAL,
    msc-Number                    [6] ISDN-AddressString        OPTIONAL,
    geodeticInformation           [7] GeodeticInformation      OPTIONAL,
    currentLocationRetrieved      [8] NULL                      OPTIONAL,
    sai-Present                   [9] NULL                      OPTIONAL }
-- sai-Present indicates that the cellGlobalIdOrServiceAreaIdOrLAI parameter contains
-- a Service Area Identity.
-- currentLocationRetrieved shall be present
-- if the location information were retrieved after a successful paging.

```

**\*\*\*\* End of Document \*\*\*\***

<h2 style="margin: 0;">CHANGE REQUEST</h2>		<i>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</i>
<b>29.002</b>	<b>CR</b>	<b>174r2</b>
<small>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</small>		<small>↑ CR number as allocated by MCC support team</small>
For submission to: <b>CN#09</b> <small>list expected approval meeting # here ↑</small>	for approval <input checked="" type="checkbox"/> for information <input type="checkbox"/>	Current Version: <b>4.0.1</b>  strategic <input type="checkbox"/> non-strategic <input checked="" type="checkbox"/> <small>(for SMG use only)</small>

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:**      **N4**      **Date:**      **23.8.2000**

**Subject:**      **Optionality of parameters in GPRS-CSI**

**Work item:**      **CAMEL Phase 3**

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

Parameters in GPRS-CSI shall be optional in ASN.1 so that the segmentation is possible.

**Clauses affected:**      **17.7**

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

<----- double-click here for help and instructions on how to create a CR.

## 17.7 MAP constants and data types

### 17.7.1 Mobile Service data types

\*\*\*\* NEXT MODIFIED SECTION \*\*\*\*

```
GPRS-CSI ::= SEQUENCE {
    gprs-CamelTDPDataList          [0] GPRS-CamelTDPDataList OPTIONAL,
    camelCapabilityHandling        [1] CamelCapabilityHandling OPTIONAL,
    extensionContainer             [2] ExtensionContainer     OPTIONAL,
    notificationToCSE              [3] NULL                  OPTIONAL,
    csiActive                      [4] NULL                  OPTIONAL,
    ...}
-- notificationToCSE and csi-Active shall not be present when GPRS-CSI is sent to SGSN.
-- They may only be included in ATSI/ATM ack/NSDC message.
-- GPRS-CamelTDPData and camelCapabilityHandling shall be present in
-- the GPRS-CSI sequence.
-- If GPRS-CSI is segmented, gprs-CamelTDPDataList and camelCapabilityHandling shall be
-- present in the first segment
```

## CHANGE REQUEST

**29.002 CR 182**

Current Version: 4.0.1

For submission to: CN#09

for approval   
for information

strategic   
non-strategic

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:** N4

**Date:** 31<sup>st</sup> July 2000

**Subject:** Removal of LSAIdentity from NoteMM-EventArg

**Work item:** CAMEL phase 3

<b>Category:</b>	F Correction	<input type="checkbox"/>	<b>Release:</b>	Phase 2	<input type="checkbox"/>
	A Corresponds to a correction in an earlier release	<input checked="" 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 type="checkbox"/>		Release 99	<input type="checkbox"/>
				Release 00	<input checked="" type="checkbox"/>

**Reason for change:** LSAIdentity is already included in LocationInformation.

**Clauses affected:** 17.7.1

<b>Other specs affected:</b>	Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	CR 165
	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:**

## 17.7.1 Mobile Service data types

.....

```
LocationInformation ::= SEQUENCE {
  ageOfLocationInformation      AgeOfLocationInformation      OPTIONAL,
  geographicalInformation       [0] GeographicalInformation   OPTIONAL,
  vlr-number                   [1] ISDN-AddressString             OPTIONAL,
  locationNumber               [2] LocationNumber                 OPTIONAL,
  cellGlobalIdOrServiceAreaIdOrLAI [3] CellGlobalIdOrServiceAreaIdOrLAI
  OPTIONAL,
  extensionContainer           [4] ExtensionContainer             OPTIONAL,
  ... ,
  selectedLSA-Id               [5] LSAIdentity                 OPTIONAL,
  msc-Number                   [6] ISDN-AddressString             OPTIONAL,
  geodeticInformation          [7] GeodeticInformation           OPTIONAL,
  currentLocationRetrieved     [8] NULL                       OPTIONAL }
-- currentLocationRetrieved shall be present
-- if the location information were retrieved after a successful paging.
```

.....

-- mobility management event notification info types

```
NoteMM-EventArg ::= SEQUENCE {
  serviceKey                   ServiceKey,
  eventMet                     [0] MM-Code,
  imsi                         [1] IMSI,
  msisdn                       [2] ISDN-AddressString,
  locationInformation           [3] LocationInformation           OPTIONAL,
  lsaIdentity                   [4] LSAIdentity                 OPTIONAL,
  supportedCAMELPhases         [5] SupportedCamelPhases           OPTIONAL,
  extensionContainer            [6] ExtensionContainer             OPTIONAL,
  ... }
```

.....



<h2 style="margin: 0;">CHANGE REQUEST</h2>		<i>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</i>	
<b>29.002</b>	<b>CR</b>	<b>188</b>	Current Version: <b>4.0.1</b>
<i>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</i>		<i>↑ CR number as allocated by MCC support team</i>	
For submission to: <b>CN#09</b>	for approval <input checked="" type="checkbox"/>	strategic <input type="checkbox"/>	<i>(for SMG use only)</i>
<i>list expected approval meeting # here ↑</i>	for information <input type="checkbox"/>	non-strategic <input checked="" type="checkbox"/>	

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:**    **N4**    **Date:**    **31.8.2000**

**Subject:**    **Clarification for segmentation of D-CSI and SMS-CSI**

**Work item:**    **CAMEL Phase 3**

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

Clarification for segmentation of D-CSI and SMS-CSI is needed. Some of those CSI's parameters are mandatory for CAMEL and they must be included in first ISD so that the data missing error is avoided

**Clauses affected:**    **17.7**

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

<----- double-click here for help and instructions on how to create a CR.

## 17.7 MAP constants and data types

### 17.7.1 Mobile Service data types

\*\*\*\* NEXT MODIFIED SECTION \*\*\*\*

```
D-CSI ::= SEQUENCE {
    dp-AnalysedInfoCriteriaList      [0] DP-AnalysedInfoCriteriaList  OPTIONAL,
    camelCapabilityHandling           [1] CamelCapabilityHandling    OPTIONAL,
    extensionContainer                [2] ExtensionContainer          OPTIONAL,
    ...}
-- DP-AnalysedInfoCriteria and camelCapabilityHandling shall be present in
-- the D-CSI sequence.
-- If D-CSI is segmented, dp-AnalysedInfoCriteriaList and camelCapabilityHandling shall be
-- present in the first segment
```

```
DP-AnalysedInfoCriteriaList ::= SEQUENCE SIZE (1..maxNumOfDP-AnalysedInfoCriteria) OF
    DP-AnalysedInfoCriterion
```

```
maxNumOfDP-AnalysedInfoCriteria INTEGER ::= 10
```

\*\*\*\* NEXT MODIFIED SECTION \*\*\*\*

```
SMS-CSI ::= SEQUENCE {
    sms-CAMEL-TDP-DataList           [0] SMS-CAMEL-TDP-DataList    OPTIONAL,
    camelCapabilityHandling           [1] CamelCapabilityHandling    OPTIONAL,
    extensionContainer                [2] ExtensionContainer          OPTIONAL,
    notificationToCSE                 [3] NULL                       OPTIONAL,
    csiActive                         [4] NULL                       OPTIONAL,
    ...}
-- notificationToCSE and csiActive shall not be present when SMS-CSI is sent to VLR/SGSN.
-- They may only be included in ATSI/ATM Ack message.
-- SMS-CAMEL-TDP-Data and camelCapabilityHandling shall be present in
-- the SMS-CSI sequence.
-- If SMS-CSI is segmented, sms-CAMEL-TDP-DataList and camelCapabilityHandling shall be
-- present in the first segment
```