

Source: TSG CN WG 4
Title: CRs to Rel-99 on Work Item Camel phase 3
Agenda item: 7.2
Document for: APPROVAL

Introduction:

This document contains **10** CRs on **R99** Work Item "**Camel 3**", that have been agreed by **TSG CN WG4**, and are forwarded to TSG CN Plenary meeting #11 for approval.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.002	228		N4-010170	R99	Adding EXPORT definition for LSIdentity	F	3.7.2
29.002	229		N4-010171	R99	Removing duplicate parameters from SS-CSI	F	3.7.2
29.002	230		N4-010172	R99	Correction to description of SS-CSI in HLR to VLR information flow	F	3.7.2
29.002	246		N4-010360	Rel-4	Adding EXPORT definition for LSIdentity	A	4.2.1
29.002	247		N4-010361	Rel-4	Removing duplicate parameters from SS-CSI	A	4.2.1
29.002	248		N4-010362	Rel-4	Correction to description of SS-CSI in HLR to VLR information flow	A	4.2.1
29.002	261	1	N4-010484	R99	Correction to D-CSI	F	3.7.2
29.002	262	1	N4-010485	Rel-4	Correction to D-CSI	A	4.2.1
29.002	257		N4-010427	R99	Adding EXPORT definition for GeographicalInformation	F	3.7.2
29.002	258		N4-010428	Rel-4	Adding EXPORT definition for GeographicalInformation	A	4.2.1

CHANGE REQUEST

⌘ **29.002 CR 228** ⌘ rev ⌘ Current version: 3.7.2 ⌘

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Adding EXPORT definition for LSAIdentity		
Source:	⌘ CN4		
Work item code:	⌘ CAMEL3	Date:	⌘ 5 January 2001
Category:	⌘ F (Agreed by consensus)	Release:	⌘ R99
	Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification)	Use <u>one</u> 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: ⌘ 3G TS 29.078 V3.6.0 (CAP) uses data type 'LSAIdentity' in data type 'LocationInformationGPRS'. CAP does not specify the data type definition of 'LSAIdentity'. Instead, CAP re-uses the definition of this data type in MAP.

MAP shall therefore EXPORT this data type definition, so it may be used in CAP.

Module MAP-MS-DataTypes, which defines LSAIdentity, contains an explicit EXPORTS statement. The data types to be used by other modules shall therefore be explicitly included in this list.

The present CR proposes to include 'LSAIdentity' in the EXPORTS list of Module MAP-MS-DataTypes.

NOTE. At present, 3G TS 29.078 V3.6.0 does not IMPORT the definition of 'LSAIdentity', even though it uses this data type.
 The IMPORT for LSAIdentity into 29.078 will be addressed by CR on 29.078.

The category of this CR is 'frequent and serious error'.

Summary of change: ⌘ Adding 'LSAIdentity' to the EXPORTS list of Module MAP-MS-DataTypes.

Consequences if not approved: ⌘ Incorrect ASN.1 syntax, possibly leading to implementation errors.

Clauses affected:	⌘ 17.7.1		
Other specs affected:	⌘ <input checked="" type="checkbox"/> Other core specifications	⌘ 29.078	
	⌘ <input type="checkbox"/> Test specifications		
	⌘ <input type="checkbox"/> O&M Specifications		
Other comments:	⌘		

***** First Change *****

17.7 MAP constants and data types

17.7.1 Mobile Service data types

```
MAP-MS-DataTypes {  
    ccitt identified-organization (4) etsi (0) mobileDomain (0)  
    gsm-Network (1) modules (3) map-MS-DataTypes (11) version6 (6)}
```

DEFINITIONS

IMPLICIT TAGS

::=

BEGIN

EXPORTS

```
-- location registration types  
UpdateLocationArg,  
UpdateLocationRes,  
CancelLocationArg,  
CancelLocationRes,  
PurgeMS-Arg,  
PurgeMS-Res,  
SendIdentificationArg,  
SendIdentificationRes,  
UpdateGprsLocationArg,  
UpdateGprsLocationRes,  
IST-SupportIndicator,  
  
-- gprs location registration types  
GSN-Address,  
  
-- handover types  
ForwardAccessSignalling-Arg,  
PrepareHO-Arg,  
PrepareHO-Res,  
PrepareSubsequentHO-Arg,  
PrepareSubsequentHO-Res,  
ProcessAccessSignalling-Arg,  
SendEndSignal-Arg,  
SendEndSignal-Res,  
  
-- authentication management types  
SendAuthenticationInfoArg,  
SendAuthenticationInfoRes,  
AuthenticationFailureReportArg,  
AuthenticationFailureReportRes,  
  
-- security management types  
EquipmentStatus,  
Kc,  
  
-- subscriber management types  
InsertSubscriberDataArg,  
InsertSubscriberDataRes,  
LSAIdentity,  
DeleteSubscriberDataArg,  
DeleteSubscriberDataRes,  
SubscriberData,  
ODB-Data,  
SubscriberStatus,  
ZoneCodeList,  
maxNumOfZoneCodes,  
O-CSI,  
D-CSI,  
O-BcsmCamelTDPCriteriaList,  
T-BCSM-CAMEL-TDP-CriteriaList,
```

```
SS-CSI,  
ServiceKey,  
DefaultCallHandling,  
CamelCapabilityHandling,  
BasicServiceCriteria,  
SupportedCamelPhases,  
maxNumOfCamelTDPData,  
CUG-Index,  
CUG-Interlock,  
InterCUG-Restrictions,  
IntraCUG-Options,  
NotificationToMSUser,  
IST-AlertTimerValue,  
T-CSI,  
T-BcsmTriggerDetectionPoint,  
  
-- fault recovery types  
ResetArg,  
RestoreDataArg,  
RestoreDataRes,  
  
-- subscriber information enquiry types  
ProvideSubscriberInfoArg,  
ProvideSubscriberInfoRes,  
SubscriberInfo,  
LocationInformation,  
SubscriberState,  
  
-- any time information enquiry types  
AnyTimeInterrogationArg,  
AnyTimeInterrogationRes,  
  
-- any time information handling types  
AnyTimeSubscriptionInterrogationArg,  
AnyTimeSubscriptionInterrogationRes,  
AnyTimeModificationArg,  
AnyTimeModificationRes,  
  
-- subscriber data modification notification types  
NoteSubscriberDataModifiedArg,  
NoteSubscriberDataModifiedRes,  
  
-- gprs location information retrieval types  
SendRoutingInfoForGprsArg,  
SendRoutingInfoForGprsRes,  
  
-- failure reporting types  
FailureReportArg,  
FailureReportRes,  
  
-- gprs notification types  
NoteMsPresentForGprsArg,  
NoteMsPresentForGprsRes,  
  
-- Mobility Management types  
NoteMM-EventArg,  
NoteMM-EventRes
```

;

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

CHANGE REQUEST

⌘ **29.002 CR 229** ⌘ rev ⌘ Current version: 3.7.2 ⌘

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Removing duplicate parameters from SS-CSI		
Source:	⌘ CN4		
Work item code:	⌘ CAMEL3	Date:	⌘ 5 january 2001
Category:	⌘ F (Agreed by consensus)	Release:	⌘ R99
	Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification)		Use <u>one</u> 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:	⌘ Problem The ASN.1 syntax of SS-CSI in MAP-MS-DataTypes contains duplicate parameters for csi-Active and notificationToCSE. These parameters are contained both on the main level of SS-CSI and on the level of sub parameter ss-CamelData. A CSI shall have only one set of the parameters csi-Active and notificationToCSE, on the main ASN.1 level of that CSI. Proposed Solution The instances of csi-Active and notificationToCSE on the level of sub parameter ss-CamelData shall be removed. The category of the present CR is 'non-essential, agreed by consensus'.
Summary of change:	⌘ Correction to ASN.1 syntax of SS-CSI
Consequences if not approved:	⌘ Incorrect implementation of SS-CSI in MAP.

Clauses affected:	⌘ 17.7.1	
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘
Other comments:	⌘ 	

***** First Change *****

17.7 MAP constants and data types

17.7.1 Mobile Service data types

```
MAP-MS-DataTypes {
  ccitt identified-organization (4) etsi (0) mobileDomain (0)
  gsm-Network (1) modules (3) map-MS-DataTypes (11) version6 (6)}
```

DEFINITIONS

IMPLICIT TAGS

::=

BEGIN

...

< unmodified ASN.1 syntax >

...

```
SS-CSI ::= SEQUENCE {
  ss-CamelData          SS-CamelData,
  extensionContainer    ExtensionContainer          OPTIONAL,
  ...,
  notificationToCSE    [0] NULL                   OPTIONAL,
  csi-Active            [1] NULL                   OPTIONAL
-- notificationToCSE and csi-Active shall not be present when SS-CSI is sent to VLR.
-- They may only be included in ATSI/ATM ack/NSDC message.
}
```

```
SS-CamelData ::= SEQUENCE {
  ss-EventList          SS-EventList,
  gsmSCF-Address        ISDN-AddressString,
  extensionContainer    [0] ExtensionContainer     OPTIONAL,
  ...,
notificationToCSE    [1] NULL                   OPTIONAL,
csiActive            [2] NULL                   OPTIONAL}
-- notificationToCSE and csiActive shall not be present when SS-CSI is sent to VLR.
-- They may only be included in ATSI/ATM Ack message.
```

```
SS-EventList ::= SEQUENCE SIZE (1..maxNumOfCamelSSEvents) OF SS-Code
-- Actions for the following SS-Code values are defined in CAMEL Phase 3:
-- ect          SS-Code ::= '00110001'B
-- multiPTY    SS-Code ::= '01010001'B
-- cd          SS-Code ::= '00100100'B
-- ccbs        SS-Code ::= '01000100'B
-- all other SS codes shall be ignored
```

```
maxNumOfCamelSSEvents INTEGER ::= 10
```

...

< unmodified ASN.1 syntax >

...

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

CHANGE REQUEST

⌘ **29.002 CR 230** ⌘ rev ⌘ Current version: 3.7.2 ⌘

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Correction to description of SS-CSI in HLR to VLR information flow		
Source:	⌘ CN4		
Work item code:	⌘ CAMEL3	Date:	⌘ 15 January 2001
Category:	⌘ F (Agreed by consensus)	Release:	⌘ R99
	Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification)		Use <u>one</u> 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: ⌘ The description of SS-CSI in the Information Flow Insert Subscriber Data, from HLR to VLR, does not specify that SS-CSI shall not contain a marking for CCBS.

Reason why the marking for CCBS in SS-CSI shall not be sent to the VLR is that the SS Invocation Notifications for CCBS are initiated by the HLR, not by the MSC.

This restriction needs to be specified clearly. It may otherwise lead to the impression to designers of CAMEL Phase 3 functionality in the VLR, that the Insert Subscriber Data information flow (MAP protocol) needs to be updated, to receive the marking for CCBS in SS-CSI.

The proposed note in ASN.1, to indicate that the CCBS marking in SS-CSI shall not be sent to the VLR, may be compared to the note in ASN.1 that 'notificationtoCSE' and 'csiActive', present in various CSI's, shall not be sent to VLR, GMSC or SGSN.

The category of this CR is 'agreed by consensus'.

Summary of change: ⌘ Textual correction in the Insert Subscriber Data information flow for SS-CSI.

Consequences if not approved: ⌘ Misinterpretation by CAMEL Phase 3 designers.

Clauses affected:	⌘ 8.4.2.2		
Other specs affected:	⌘ <input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	3G TS 23.078 CR 261
Other comments:	⌘		

***** First Change *****

17.7 MAP constants and data types

17.7.1 Mobile Service data types

```
MAP-MS-DataTypes {
  ccitt identified-organization (4) etsi (0) mobileDomain (0)
  gsm-Network (1) modules (3) map-MS-DataTypes (11) version6 (6)}
```

DEFINITIONS

IMPLICIT TAGS

...

< unmodified ASN.1 definition >

...

```
SS-CSI ::= SEQUENCE {
  ss-CamelData          SS-CamelData,
  extensionContainer    ExtensionContainer OPTIONAL,
  ...,
  notificationToCSE    [0] NULL          OPTIONAL,
  csi-Active            [1] NULL          OPTIONAL
-- notificationToCSE and csi-Active shall not be present when SS-CSI is sent to VLR.
-- They may only be included in ATSI/ATM ack/NSDC message.
}
```

```
SS-CamelData ::= SEQUENCE {
  ss-EventList          SS-EventList,
  gsmSCF-Address        ISDN-AddressString,
  extensionContainer    [0] ExtensionContainer OPTIONAL,
  ...,
  notificationToCSE    [1] NULL          OPTIONAL,
  csiActive            [2] NULL          OPTIONAL}
-- notificationToCSE and csiActive shall not be present when SS-CSI is sent to VLR.
-- They may only be included in ATSI/ATM Ack message.
```

```
SS-EventList ::= SEQUENCE SIZE (1..maxNumOfCamelSSEvents) OF SS-Code
-- Actions for the following SS-Code values are defined in CAMEL Phase 3:
-- ect          SS-Code ::= '00110001'B
-- multiPTY    SS-Code ::= '01010001'B
-- cd          SS-Code ::= '00100100'B
-- ccbs        SS-Code ::= '01000100'B
-- all other SS codes shall be ignored
-- When SS-CSI is sent to the VLR, it shall not contain a marking for ccbs.
-- If the VLR receives SS-CSI containing a marking for ccbs, the VLR shall discard the
-- ccbs marking in SS-CSI.
```

```
maxNumOfCamelSSEvents INTEGER ::= 10
```

...

< unmodified ASN.1 definition >

...

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

CHANGE REQUEST

⌘ **29.002 CR 246** ⌘ rev ⌘ Current version: **4.2.1** ⌘

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Adding EXPORT definition for LSAIdentity		
Source:	⌘ CN4		
Work item code:	⌘ Camel3	Date:	⌘ 23 February 2001
Category:	⌘ A	Release:	⌘ Rel-4
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (essential 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)
			REL-4 (Release 4)
			REL-5 (Release 5)

Reason for change:	⌘ 3G TS 29.078 V3.6.0 (CAP) uses data type 'LSAIdentity' in data type 'LocationInformationGPRS'. CAP does not specify the data type definition of 'LSAIdentity'. Instead, CAP re-uses the definition of this data type in MAP. MAP shall therefore EXPORT this data type definition, so it may be used in CAP. Module MAP-MS-DataTypes, which defines LSAIdentity, contains an explicit EXPORTS statement. The data types to be used by other modules shall therefore be explicitly included in this list. The present CR proposes to include 'LSAIdentity' in the EXPORTS list of Module MAP-MS-DataTypes. NOTE. At present, 3G TS 29.078 V3.6.0 does not IMPORT the definition of 'LSAIdentity', even though it uses this data type. The IMPORT for LSAIdentity into 29.078 will be addressed by CR on 29.078.
Summary of change:	⌘ Adding 'LSAIdentity' to the EXPORTS list of Module MAP-MS-DataTypes.
Consequences if not approved:	⌘ Incorrect ASN.1 syntax, possibly leading to implementation errors.

Clauses affected:	⌘ 17.7.1		
Other specs affected:	⌘ <input checked="" type="checkbox"/>	Other core specifications	⌘ 29.078
	<input type="checkbox"/>	Test specifications	
	<input type="checkbox"/>	O&M Specifications	
Other comments:	⌘		

*** First Change ***

17.7 MAP constants and data types

17.7.1 Mobile Service data types

```
MAP-MS-DataTypes {
    ccitt identified-organization (4) etsi (0) mobileDomain (0)
    gsm-Network (1) modules (3) map-MS-DataTypes (11) version6 (6)}
```

DEFINITIONS

IMPLICIT TAGS

::=

BEGIN

EXPORTS

```

-- location registration types
UpdateLocationArg,
UpdateLocationRes,
CancelLocationArg,
CancelLocationRes,
PurgeMS-Arg,
PurgeMS-Res,
SendIdentificationArg,
SendIdentificationRes,
UpdateGprsLocationArg,
UpdateGprsLocationRes,
IST-SupportIndicator,

-- gprs location registration types
GSN-Address,

-- handover types
ForwardAccessSignalling-Arg,
PrepareHO-Arg,
PrepareHO-Res,
PrepareSubsequentHO-Arg,
PrepareSubsequentHO-Res,
ProcessAccessSignalling-Arg,
SendEndSignal-Arg,
SendEndSignal-Res,

-- authentication management types
SendAuthenticationInfoArg,
SendAuthenticationInfoRes,
AuthenticationFailureReportArg,
AuthenticationFailureReportRes,

-- security management types
EquipmentStatus,
Kc,

-- subscriber management types
InsertSubscriberDataArg,
InsertSubscriberDataRes,
LSAIdentity,
DeleteSubscriberDataArg,
DeleteSubscriberDataRes,
SubscriberData,
ODB-Data,
SubscriberStatus,
ZoneCodeList,
maxNumOfZoneCodes,
O-CSI,
D-CSI,
O-BcsmCamelTDPCriteriaList,
T-BCSM-CAMEL-TDP-CriteriaList,
SS-CSI,
```

```
ServiceKey,  
DefaultCallHandling,  
CamelCapabilityHandling,  
BasicServiceCriteria,  
SupportedCamelPhases,  
maxNumOfCamelTDPData,  
CUG-Index,  
CUG-Interlock,  
InterCUG-Restrictions,  
IntraCUG-Options,  
NotificationToMSUser,  
IST-AlertTimerValue,  
T-CSI,  
T-BcsmTriggerDetectionPoint,  
  
-- fault recovery types  
ResetArg,  
RestoreDataArg,  
RestoreDataRes,  
  
-- subscriber information enquiry types  
ProvideSubscriberInfoArg,  
ProvideSubscriberInfoRes,  
SubscriberInfo,  
LocationInformation,  
SubscriberState,  
  
-- any time information enquiry types  
AnyTimeInterrogationArg,  
AnyTimeInterrogationRes,  
  
-- any time information handling types  
AnyTimeSubscriptionInterrogationArg,  
AnyTimeSubscriptionInterrogationRes,  
AnyTimeModificationArg,  
AnyTimeModificationRes,  
  
-- subscriber data modification notification types  
NoteSubscriberDataModifiedArg,  
NoteSubscriberDataModifiedRes,  
  
-- gprs location information retrieval types  
SendRoutingInfoForGprsArg,  
SendRoutingInfoForGprsRes,  
  
-- failure reporting types  
FailureReportArg,  
FailureReportRes,  
  
-- gprs notification types  
NoteMsPresentForGprsArg,  
NoteMsPresentForGprsRes,  
  
-- Mobility Management types  
NoteMM-EventArg,  
NoteMM-EventRes
```

;

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

***** First Change *****

17.7 MAP constants and data types

17.7.1 Mobile Service data types

```
MAP-MS-DataTypes {
  ciitt identified-organization (4) etsi (0) mobileDomain (0)
  gsm-Network (1) modules (3) map-MS-DataTypes (11) version6 (6)}
```

DEFINITIONS

IMPLICIT TAGS

::=

BEGIN

...

< unmodified ASN.1 syntax >

...

```
SS-CSI ::= SEQUENCE {
  ss-CamelData          SS-CamelData,
  extensionContainer    ExtensionContainer          OPTIONAL,
  ...,
  notificationToCSE     [0] NULL                   OPTIONAL,
  csi-Active            [1] NULL                   OPTIONAL
-- notificationToCSE and csi-Active shall not be present when SS-CSI is sent to VLR.
-- They may only be included in ATSI/ATM ack/NSDC message.
}
```

```
SS-CamelData ::= SEQUENCE {
  ss-EventList          SS-EventList,
  gsmSCF-Address        ISDN-AddressString,
  extensionContainer    [0] ExtensionContainer      OPTIONAL,
  ...
notificationToCSE     [1] NULL                   OPTIONAL,
csiActive            [2] NULL                   OPTIONAL}
notificationToCSE and csiActive shall not be present when SS-CSI is sent to VLR.
They may only be included in ATSI/ATM Ack message.
```

```
SS-EventList ::= SEQUENCE SIZE (1..maxNumOfCamelSSEvents) OF SS-Code
-- Actions for the following SS-Code values are defined in CAMEL Phase 3:
-- ect          SS-Code ::= '00110001'B
-- multiPTY     SS-Code ::= '01010001'B
-- cd           SS-Code ::= '00100100'B
-- ccbs        SS-Code ::= '01000100'B
-- all other SS codes shall be ignored
```

```
maxNumOfCamelSSEvents INTEGER ::= 10
```

...

< unmodified ASN.1 syntax >

...

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

CHANGE REQUEST

⌘ **29.002 CR 248** ⌘ rev ⌘ Current version: **4.2.1** ⌘

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Correction to description of SS-CSI in HLR to VLR information flow		
Source:	⌘ CN4		
Work item code:	⌘ CAMEL3	Date:	⌘ 18 January 2001
Category:	⌘ A	Release:	⌘ Rel-4
	Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification)		Use <u>one</u> 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:	⌘ The description of SS-CSI in the Information Flow Insert Subscriber Data, from HLR to VLR, does not specify that SS-CSI shall not contain a marking for CCBS. Reason why the marking for CCBS in SS-CSI shall not be sent to the VLR is that the SS Invocation Notifications for CCBS are initiated by the HLR, not by the MSC. This restriction needs to be specified clearly. It may otherwise lead to the impression to designers of CAMEL Phase 3 functionality in the VLR, that the Insert Subscriber Data information flow (MAP protocol) needs to be updated, to receive the marking for CCBS in SS-CSI. The proposed note in ASN.1, to indicate that the CCBS marking in SS-CSI shall not be sent to the VLR, may be compared to the note in ASN.1 that 'notificationtoCSE' and 'csiActive', present in various CSI's, shall not be sent to VLR, GMSC or SGSN.
Summary of change:	⌘ Textual correction in the Insert Subscriber Data information flow for SS-CSI.
Consequences if not approved:	⌘ Misinterpretation by CAMEL Phase 3 designers.

Clauses affected:	⌘ 8.4.2.2		
Other specs affected:	⌘ <input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘ 23.078	
Other comments:	⌘		

***** First Change *****

17.7 MAP constants and data types

17.7.1 Mobile Service data types

```
MAP-MS-DataTypes {
  ccitt identified-organization (4) etsi (0) mobileDomain (0)
  gsm-Network (1) modules (3) map-MS-DataTypes (11) version6 (6)}
```

DEFINITIONS

IMPLICIT TAGS

...

< unmodified ASN.1 definition >

...

```
SS-CSI ::= SEQUENCE {
  ss-CamelData          SS-CamelData,
  extensionContainer    ExtensionContainer          OPTIONAL,
  ...,
  notificationToCSE     [0] NULL                  OPTIONAL,
  csi-Active            [1] NULL                  OPTIONAL
-- notificationToCSE and csi-Active shall not be present when SS-CSI is sent to VLR.
-- They may only be included in ATSI/ATM ack/NSDC message.
}
```

```
SS-CamelData ::= SEQUENCE {
  ss-EventList          SS-EventList,
  gsmSCF-Address        ISDN-AddressString,
  extensionContainer    [0] ExtensionContainer          OPTIONAL,
  ...,
  notificationToCSE     [1] NULL                  OPTIONAL,
  csiActive            [2] NULL                  OPTIONAL
-- notificationToCSE and csiActive shall not be present when SS-CSI is sent to VLR.
-- They may only be included in ATSI/ATM Ack message.
}
```

```
SS-EventList ::= SEQUENCE SIZE (1..maxNumOfCamelSSEvents) OF SS-Code
-- Actions for the following SS-Code values are defined in CAMEL Phase 3:
-- ect          SS-Code ::= '00110001'B
-- multiPTY     SS-Code ::= '01010001'B
-- cd          SS-Code ::= '00100100'B
-- ccbs        SS-Code ::= '01000100'B
-- all other SS codes shall be ignored
-- When SS-CSI is sent to the VLR, it shall not contain a marking for ccbs.
-- If the VLR receives SS-CSI containing a marking for ccbs, the VLR shall discard the
-- ccbs marking in SS-CSI.
```

```
maxNumOfCamelSSEvents INTEGER ::= 10
```

...

< unmodified ASN.1 definition >

...

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

CR-Form-v3

CHANGE REQUEST

⌘ **29.002 CR 257** ⌘ rev **-** ⌘ Current version: **3.7.2** ⌘

For **HELP** 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

Title:	⌘ Adding EXPORT definition for GeographicalInformation		
Source:	⌘ CN4		
Work item code:	⌘ Camel 3	Date:	⌘ 07 Feb 2001
Category:	⌘ F (essential correction)	Release:	⌘ R99
	<i>Use one of the following categories:</i> F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification)		<i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900.		

Reason for change:	⌘ The present CR proposes to include 'GeographicalInformation' in the EXPORTS list of Module MAP-MS-DataTypes due the 3GPP TS 29.078 V3.6.0 (CAP) uses this data type in 'LocationInformationGPRS'.
Summary of change:	⌘ Adding 'GeographicalInformation' to the EXPORTS list of Module MAP-MS-DataTypes.
Consequences if not approved:	⌘ Misalignement between the implementations.

Clauses affected:	⌘ 17.7.1		
Other specs affected:	<input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘ 29.078	
Other comments:	⌘		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://www.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

***** *First Change* *****

17.7 MAP constants and data types

17.7.1 Mobile Service data types

```
MAP-MS-DataTypes {
  ccitt identified-organization (4) etsi (0) mobileDomain (0)
  gsm-Network (1) modules (3) map-MS-DataTypes (11) version6 (6)}
```

DEFINITIONS

IMPLICIT TAGS

::=

BEGIN

EXPORTS

```

  -- location registration types
  UpdateLocationArg,
  UpdateLocationRes,
  CancelLocationArg,
  CancelLocationRes,
  PurgeMS-Arg,
  PurgeMS-Res,
  SendIdentificationArg,
  SendIdentificationRes,
  UpdateGprsLocationArg,
  UpdateGprsLocationRes,
  IST-SupportIndicator,

  -- handover types
  ForwardAccessSignalling-Arg,
  PrepareHO-Arg,
  PrepareHO-Res,
  PrepareSubsequentHO-Arg,
  PrepareSubsequentHO-Res,
  ProcessAccessSignalling-Arg,
  SendEndSignal-Arg,
  SendEndSignal-Res,

  -- authentication management types
  SendAuthenticationInfoArg,
  SendAuthenticationInfoRes,
  AuthenticationFailureReportArg,
  AuthenticationFailureReportRes,

  -- security management types
  EquipmentStatus,
  Kc,

  -- subscriber management types
  InsertSubscriberDataArg,
  InsertSubscriberDataRes,
  DeleteSubscriberDataArg,
  DeleteSubscriberDataRes,
  SubscriberData,
  ODB-Data,
  SubscriberStatus,
  ZoneCodeList,
  maxNumOfZoneCodes,
  O-CSI,
  D-CSI,
  O-BcsmCamelTDPCriteriaList,
  T-BCSM-CAMEL-TDP-CriteriaList,
  SS-CSI,
  ServiceKey,
  DefaultCallHandling,
  CamelCapabilityHandling,
  BasicServiceCriteria,
  SupportedCamelPhases,
  maxNumOfCamelTDPData,
  CUG-Index,
  CUG-Interlock,
  InterCUG-Restrictions,
  IntraCUG-Options,
  NotificationToMSUser,
  IST-AlertTimerValue,
  T-CSI,
  T-BcsmTriggerDetectionPoint,
```

```
-- fault recovery types
ResetArg,
RestoreDataArg,
RestoreDataRes,

-- provide subscriber info types
GeographicalInformation,

-- subscriber information enquiry types
ProvideSubscriberInfoArg,
ProvideSubscriberInfoRes,
SubscriberInfo,
LocationInformation,
SubscriberState,

-- any time information enquiry types
AnyTimeInterrogationArg,
AnyTimeInterrogationRes,

-- any time information handling types
AnyTimeSubscriptionInterrogationArg,
AnyTimeSubscriptionInterrogationRes,
AnyTimeModificationArg,
AnyTimeModificationRes,

-- subscriber data modification notification types
NoteSubscriberDataModifiedArg,
NoteSubscriberDataModifiedRes,

-- gprs location information retrieval types
SendRoutingInfoForGprsArg,
SendRoutingInfoForGprsRes,

-- failure reporting types
FailureReportArg,
FailureReportRes,

-- gprs notification types
NoteMsPresentForGprsArg,
NoteMsPresentForGprsRes,

-- Mobility Management types
NoteMM-EventArg,
NoteMM-EventRes
```

;

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

CR-Form-v3

CHANGE REQUEST

⌘ **29.002 CR 258** ⌘ rev **-** ⌘ Current version: **4.2.1** ⌘

For **HELP** 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

Title:	⌘ Adding EXPORT definition for GeographicalInformation		
Source:	⌘ CN4		
Work item code:	⌘ Camel 3	Date:	⌘ 26 Feb 2001
Category:	⌘ A	Release:	⌘ REL-4
Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification)		Use <u>one</u> 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)	
Detailed explanations of the above categories can be found in 3GPP TR 21.900.			

Reason for change:	⌘ The present CR proposes to include 'GeographicalInformation' in the EXPORTS list of Module MAP-MS-DataTypes due the 3GPP TS 29.078 (CAP) uses this data type in 'LocationInformationGPRS'.
Summary of change:	⌘ Adding 'GeographicalInformation' to the EXPORTS list of Module MAP-MS-DataTypes.
Consequences if not approved:	⌘ Misalignement between the implementations.

Clauses affected:	⌘ 17.7.1		
Other specs affected:	<input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘ 29.078	
Other comments:	⌘		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://www.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

***** *First Change* *****

17.7 MAP constants and data types

17.7.1 Mobile Service data types

```
MAP-MS-DataTypes {
  ccitt identified-organization (4) etsi (0) mobileDomain (0)
  gsm-Network (1) modules (3) map-MS-DataTypes (11) version6 (6)}
```

DEFINITIONS

IMPLICIT TAGS

::=

BEGIN

EXPORTS

```

  -- location registration types
  UpdateLocationArg,
  UpdateLocationRes,
  CancelLocationArg,
  CancelLocationRes,
  PurgeMS-Arg,
  PurgeMS-Res,
  SendIdentificationArg,
  SendIdentificationRes,
  UpdateGprsLocationArg,
  UpdateGprsLocationRes,
  IST-SupportIndicator,

  -- handover types
  ForwardAccessSignalling-Arg,
  PrepareHO-Arg,
  PrepareHO-Res,
  PrepareSubsequentHO-Arg,
  PrepareSubsequentHO-Res,
  ProcessAccessSignalling-Arg,
  SendEndSignal-Arg,
  SendEndSignal-Res,

  -- authentication management types
  SendAuthenticationInfoArg,
  SendAuthenticationInfoRes,
  AuthenticationFailureReportArg,
  AuthenticationFailureReportRes,

  -- security management types
  EquipmentStatus,
  Kc,

  -- subscriber management types
  InsertSubscriberDataArg,
  InsertSubscriberDataRes,
  DeleteSubscriberDataArg,
  DeleteSubscriberDataRes,
  SubscriberData,
  ODB-Data,
  SubscriberStatus,
  ZoneCodeList,
  maxNumOfZoneCodes,
  O-CSI,
  D-CSI,
  O-BcsmCamelTDPCriteriaList,
  T-BCSM-CAMEL-TDP-CriteriaList,
  SS-CSI,
  ServiceKey,
  DefaultCallHandling,
  CamelCapabilityHandling,
  BasicServiceCriteria,
  SupportedCamelPhases,
  maxNumOfCamelTDPData,
  CUG-Index,
  CUG-Interlock,
  InterCUG-Restrictions,
  IntraCUG-Options,
  NotificationToMSUser,
  IST-AlertTimerValue,
  T-CSI,
  T-BcsmTriggerDetectionPoint,
```

```
-- fault recovery types
ResetArg,
RestoreDataArg,
RestoreDataRes,

-- provide subscriber info types
GeographicalInformation,

-- subscriber information enquiry types
ProvideSubscriberInfoArg,
ProvideSubscriberInfoRes,
SubscriberInfo,
LocationInformation,
SubscriberState,

-- any time information enquiry types
AnyTimeInterrogationArg,
AnyTimeInterrogationRes,

-- any time information handling types
AnyTimeSubscriptionInterrogationArg,
AnyTimeSubscriptionInterrogationRes,
AnyTimeModificationArg,
AnyTimeModificationRes,

-- subscriber data modification notification types
NoteSubscriberDataModifiedArg,
NoteSubscriberDataModifiedRes,

-- gprs location information retrieval types
SendRoutingInfoForGprsArg,
SendRoutingInfoForGprsRes,

-- failure reporting types
FailureReportArg,
FailureReportRes,

-- gprs notification types
NoteMsPresentForGprsArg,
NoteMsPresentForGprsRes,

-- Mobility Management types
NoteMM-EventArg,
NoteMM-EventRes
```

;

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

CR-Form-v3

CHANGE REQUEST

⌘ **29.002 CR 261** ⌘ rev **1** ⌘ Current version: **3.7.1** ⌘

For **HELP** 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

Title:	⌘ Correction to D-CSI		
Source:	⌘ CN4		
Work item code:	⌘ CAMEL 3	Date:	⌘ 02/03/01
Category:	⌘ F (agreed by consensus)	Release:	⌘ R99
	<p><i>Use <u>one</u> of the following categories:</i></p> <p>F (essential correction)</p> <p>A (corresponds to a correction in an earlier release)</p> <p>B (Addition of feature),</p> <p>C (Functional modification of feature)</p> <p>D (Editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>	<p><i>Use <u>one</u> of the following releases:</i></p> <p>2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>REL-4 (Release 4)</p> <p>REL-5 (Release 5)</p>	

Reason for change:	⌘ The description of D-CSI in <ul style="list-style-type: none"> <input type="checkbox"/> the Information Flow Insert Subscriber Data, from HLR to VLR, <input type="checkbox"/> the Information Flow Send Routeing Information, from HLR to GMSC, <input type="checkbox"/> the Information Flow Resume Call handling, from VLR to GMSC <p>does not specify that D-CSI shall not contain the "notificationToCSE" sub-parameter.</p> <p>This sub-parameter may be sent in ATSI/ATM ack/NSDC message.</p> <p>This restriction needs to be specified clearly. It may otherwise lead to the impression to designers of CAMEL Phase 3 functionality in the VLR/GMSC that the Insert Subscriber Data, Send Routeing Information and the Resume Call Handling information flow need to be updated, to receive the marking for CSE notification in D-CSI.</p>
Summary of change:	⌘ Textual correction in the description of the D-CSI
Consequences if not approved:	⌘ Misinterpretation by CAMEL Phase 3 designers

Clauses affected:	⌘ 17.7.1		
Other specs affected:	<input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	
Other comments:	⌘		

17.7 MAP constants and data types

17.7.1 Mobile Service data types

```
D-CSI ::= SEQUENCE {
    dp-AnalysedInfoCriteriaList      [0] DP-AnalysedInfoCriteriaList  OPTIONAL,
    camelCapabilityHandling           [1] CamelCapabilityHandling      OPTIONAL,
    extensionContainer                [2] ExtensionContainer          OPTIONAL,
    notificationToCSE                 [3] NULL                          OPTIONAL,
    csi-Active                        [4] NULL                          OPTIONAL,
    ...}
-- csi-active-notificationToCSE and csi-Active shall not be present when D-CSI is sent to
-- VLR/GMSC.
-- ††-They may only be included in ATSI/ATM ack/NSDC message.
-- 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
```

CR-Form-v3	
CHANGE REQUEST	
⌘ 29.002 CR 262 ⌘ rev 1 ⌘	Current version: 4.2.1 ⌘

For **HELP** 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

Title:	⌘ Correction to D-CSI		
Source:	⌘ CN4		
Work item code:	⌘ CAMEL 3	Date:	⌘ 02/03/01
Category:	⌘ A	Release:	⌘ REL-4
Use <u>one</u> of the following categories: F (essential 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.		Use <u>one</u> 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:	⌘ The description of D-CSI in <ul style="list-style-type: none"> <input type="checkbox"/> the Information Flow Insert Subscriber Data, from HLR to VLR, <input type="checkbox"/> the Information Flow Send Routeing Information, from HLR to GMSC, <input type="checkbox"/> the Information Flow Resume Call handling, from VLR to GMSC does not specify that D-CSI shall not contain the "notificationToCSE" sub-parameter. This sub-parameter may be sent in ATSI/ATM ack/NSDC message. This restriction needs to be specified clearly. It may otherwise lead to the impression to designers of CAMEL Phase 3 functionality in the VLR/GMSC that the Insert Subscriber Data, Send Routeing Information and the Resume Call Handling information flow need to be updated, to receive the marking for CSE notification in D-CSI.
Summary of change:	⌘ Textual correction in the description of the D-CSI
Consequences if not approved:	⌘ Misinterpretation by CAMEL Phase 3 designers

Clauses affected:	⌘ 17.7.1		
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications	⌘ <input type="checkbox"/> Test specifications	

O&M Specifications

Other comments: ⌘

17.7 MAP constants and data types

17.7.1 Mobile Service data types

```
D-CSI ::= SEQUENCE {
    dp-AnalysedInfoCriteriaList      [0] DP-AnalysedInfoCriteriaList  OPTIONAL,
    camelCapabilityHandling           [1] CamelCapabilityHandling      OPTIONAL,
    extensionContainer                [2] ExtensionContainer          OPTIONAL,
    notificationToCSE                 [3] NULL                          OPTIONAL,
    csi-Active                        [4] NULL                          OPTIONAL,
    ...}
-- csi-active-notificationToCSE and csi-Active shall not be present when D-CSI is sent to
-- VLR/GMSC.
-- ††-They may only be included in ATSI/ATM ack/NSDC message.
-- 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
```