**Source:**            **CN2**

**Title:**               **CRs on R99 Work Item CAMEL3**

**Agenda item:**      **7.1**

**Document for:**     **APPROVAL**

---

**Introduction:**

This document contains 1 CRs on R99 WI CAMEL3 (TS 23.078) and corresponding Rel-4 CR. These CRs have been agreed by TSG CN WG2 and are forwarded to TSG CN Plenary meeting #20 for approval.

| Spec | CR | Rev | Doc-2nd-Level | Phase | Subject | Cat | Ver_C |
|------|-----|-----|---------------|-------|---------|-----|-------|
| 23.078 | 581 | 1 | N2-030275 | R99 | Behavior of HLR upon location updating in CAMEL Phase 3 | F | 3.G.0 |
| 23.078 | 582 | 1 | N2-030276 | Rel-4 | Behavior of HLR upon location updating in CAMEL Phase 3 | A | 4.8.0 |

*CR-Form-v7*

# CHANGE REQUEST

⌘ **23.078** CR **581** ⌘rev **1** ⌘ Current version: **3.16.0** ⌘

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

**Proposed change affects:** UICC apps⌘ ☐  ME ☐  Radio Access Network ☐  Core Network **X**

| | | |
|---|---|---|
| *Title:* ⌘ | Behavior of HLR upon location updating in CAMEL Phase 3 | |
| *Source:* ⌘ | Siemens AG | |
| *Work item code:* ⌘ | CAMEL3 | *Date:* ⌘ 19/05/2003 |

*Category:* ⌘ **F (Essential correction)**      *Release:* ⌘ R99

Use <u>one</u> 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.

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)
  Rel-6  (Release 6)

| | |
|---|---|
| *Reason for change:* ⌘ | The first two paragraphs of "CAMEL specific handling of location updating and data restoration (4.5.9)" had been copied from CAMEL Phase 2. Later, the mobility management topics were added, but the copied parts have been left untouched. The HLR in this subclause still implies as "CAMEL Phase 2" HLR. |
| *Summary of change:* ⌘ | Remove "CAMEL phase 2" so that the HLR this subclause applies CAMEL phase 3 as default. |
| *Consequences if not approved:* ⌘ | The HLR in this subclause still remains as "CAMEL Phase 2" HLR, which does not hold D-CSI, VT-CSI and other new CSIs introduced in CAMEL Phase 3. The VLR would not be able to obtain CAMEL Phase 3 CSIs upon location updating. The "CAMEL Phase 3" MSC/VLR would NEVER be able to execute CAMEL Phase 3 procedures after location updating. |

| | |
|---|---|
| *Clauses affected:* ⌘ | 4.5.9 |

| | Y | N | | |
|---|---|---|---|---|
| *Other specs affected:* ⌘ | | X | Other core specifications | ⌘ |
| | | X | Test specifications | |
| | | X | O&M Specifications | |

| | |
|---|---|
| *Other comments:* ⌘ | CAMEL Phase 4 (Rel-5) has already been resolved this issue - no CR needed. |

---
*** For Information (CAMEL Phase 2 - 03.78 v7.8.1) ***
---

## 8.12 CAMEL specific handling of location updating and data restoration

When requesting location updating or data restoration the VLR shall indicate to the HLR which CAMEL phases it supports.

The CAMEL phase 2 HLR shall then send to the VLR CAMEL subscription data for one of the CAMEL phases supported by the VLR or, if some different handling is required, data for substitute handling.

---
*** Modified part ***
---

## 4.5.9 CAMEL specific handling of location updating and data restoration

When requesting location updating or data restoration the VLR shall indicate to the HLR which CAMEL phases it supports.

The ~~CAMEL phase 2~~ HLR shall then send to the VLR CAMEL subscription data for one of the CAMEL phases supported by the VLR or, if some different handling is required, data for substitute handling.

When <u>the</u> location update has been completed, the MSC/VLR in which the subscriber is registered after the location update, shall check the M-CSI. If a Mobility Management notification to the gsmSCF is required for this subscriber, then the MSC/VLR shall now send the notification to the gsmSCF.

Refer to clause 9.2.1 for a description of M-CSI and the conditions under which a notification shall be sent.

*CR-Form-v7*

# CHANGE REQUEST

⌘ **23.078 CR 582** ⌘**rev 1** ⌘ Current version: **4.8.0** ⌘

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

**Proposed change affects:** UICC apps⌘ ☐　ME ☐ Radio Access Network ☐ Core Network **X**

| | | |
|---|---|---|
| *Title:* ⌘ | Behavior of HLR upon location updating in CAMEL Phase 3 | |
| *Source:* ⌘ | Siemens AG | |
| *Work item code:*⌘ | CAMEL3 | *Date:* ⌘ 19/05/2003 |
| *Category:* ⌘ | **A** | *Release:* ⌘ Rel-4 |

Use <u>one</u> 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.

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)
Rel-6　(Release 6)

| | |
|---|---|
| *Reason for change:* ⌘ | The first two paragraphs of "CAMEL specific handling of location updating and data restoration (4.5.9)" had been copied from CAMEL Phase 2. Later, the mobility management topics were added, but the copied parts have been left untouched. The HLR in this subclause still implies as "CAMEL Phase 2" HLR. |
| *Summary of change:*⌘ | Remove "CAMEL phase 2" so that the HLR this subclause applies CAMEL phase 3 as default. |
| *Consequences if not approved:* ⌘ | The HLR in this subclause still remains as "CAMEL Phase 2" HLR, which does not hold D-CSI, VT-CSI and other new CSIs introduced in CAMEL Phase 3. The VLR would not be able to obtain CAMEL Phase 3 CSIs upon location updating. The "CAMEL Phase 3" MSC/VLR would NEVER be able to execute CAMEL Phase 3 procedures after location updating. |

| | | |
|---|---|---|
| *Clauses affected:* ⌘ | 4.5.9 | |

| | Y | N | | |
|---|---|---|---|---|
| *Other specs* ⌘ | | X | Other core specifications | ⌘ |
| *affected:* | | X | Test specifications | |
| | | X | O&M Specifications | |

| | |
|---|---|
| *Other comments:* ⌘ | CAMEL Phase 4 (Rel-5) has already been resolved this issue - no CR needed. |

| *** For Information (CAMEL Phase 2 - 03.78 v7.8.1) *** |
|---|

## 8.12 CAMEL specific handling of location updating and data restoration

When requesting location updating or data restoration the VLR shall indicate to the HLR which CAMEL phases it supports.

The CAMEL phase 2 HLR shall then send to the VLR CAMEL subscription data for one of the CAMEL phases supported by the VLR or, if some different handling is required, data for substitute handling.

| *** Modified part *** |
|---|

## 4.5.9 CAMEL specific handling of location updating and data restoration

When requesting location updating or data restoration the VLR shall indicate to the HLR which CAMEL phases it supports.

The ~~CAMEL phase 2~~ HLR shall then send to the VLR CAMEL subscription data for one of the CAMEL phases supported by the VLR or, if some different handling is required, data for substitute handling.

When the location update has been completed, the MSC/VLR in which the subscriber is registered after the location update, shall check the M-CSI. If a Mobility Management notification to the gsmSCF is required for this subscriber, then the MSC/VLR shall now send the notification to the gsmSCF.

Refer to clause 9.2.1 for a description of M-CSI and the conditions under which a notification shall be sent.