3GPP TSG CN Plenary Meeting #11, Palm Springs, U.S.A 14th - 16th March 2001

Source: TSG CN WG4

Title: CRs to R98 on Work Item LCS

Agenda item: 7.17

Document for: APPROVAL

Introduction:

This document contains **5** CRs on **R98** Work Item "**LCS**", 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 |
|--------|------|-----|---------------|-------|---|-----|-------|
| 09.02 | 312 | 1 | N4-010034 | R98 | Correction to LCS application context | F | 7.7.0 |
| 29.002 | 205 | 1 | N4-010035 | R99 | Correction to LCS application context | Α | 3.7.2 |
| 29.002 | 206 | 1 | N4-010036 | Rel-4 | Correction to LCS application context | Α | 4.2.1 |
| 03.16 | A043 | | N4-010049 | R98 | Alignment about Notification to MS User between 09.02, 03.71(LCS Stage2) and 03.16 | F | 7.4.0 |
| 23.016 | 018 | | N4-010050 | R99 | Alignment about Notification to MS User between 29.002, 23.171(LCS Stage2) and 23.016 | Α | 3.6.0 |

3GPP TSG-CN4 Meeting #6 Beijing, China, 15-19 Jan.

| | CHANGE REQUEST | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| * | 03.16 CR A043 | | | | | | | |
| For <u>HELP</u> on u | sing this form, see bottom of this page or look at the pop-up text over the # symbols. | | | | | | | |
| Proposed change | affects: 第 (U)SIM ME/UE Radio Access Network Core Network X | | | | | | | |
| Title: # | Alignment about Notification to MS User between 09.02 , 03.71(LCS Stage2) and 03.16 | | | | | | | |
| Source: # | CN4 | | | | | | | |
| Work item code: 第 | LCS Date: # 15/01/2001 | | | | | | | |
| Category: 第 | F (Agreed by consensus) Release: R98 | | | | | | | |
| Use one 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) C (Fund explanations of the above categories can personnel of the following release of the following release of the following release 1996) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Detailed explanations of the above categories can personnel of the following release 1996) R97 (Release 1997) R98 (Release 1999) R99 (Release 1999) Detailed explanations of the above categories can personnel of the following release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) R89 (Release 1999) R89 (Release 1999) R89 (Release 1999) | | | | | | | | |
| Reason for change | e: # Alignment between 09.02, 03.71 and 03.16 | | | | | | | |
| Summary of chang | | | | | | | | |
| Consequences if not approved: | # There is not alignment between GSM 09.02, 03.71 and 03.16. | | | | | | | |
| Clauses affected: | % 4.5.4 | | | | | | | |
| Other specs affected: | # Other core specifications # Test specifications O&M Specifications | | | | | | | |
| Other comments: | $m{lpha}$ | | | | | | | |

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.

4.5.4 Consistency of supplementary service data

In some cases, the protocol used between the HLR and VLR encodes some data that is not EBSG-related SS data with an EBSG qualifier. In this case, the HLR shall ensure that when this data is sent it is always the same for all EBSGs. If this data is modified, the HLR must send the supplementary service data to the VLR for all EBSGs which meet all the following criteria:

- at least one basic service in the EBSG is supported; and
- the supplementary service is applicable to at least one (possibly different) basic service in the EBSG; and
- the subscriber has a subscription to at least one (possibly different) basic service in the EBSG.

L-LCS Information -GMĻC List -GMLC Address (1) -GMLC Address (n) -LCS Privacy Exception List --Universāl Privacy Class -Provisioning State -Activation Štate -Registration State -Call Related Privacy Class -Provisioning State -Activation Štate Registration State
Notification to MS User -Call Unrelated Privacy Class -Provisioning State -Activation State -Registration State -Prívacy Verification by MS User -External Client List -Exțernal Client (1)-Address -Notification to MS User -GMLC restriction -External Client (n) -Address -Notification to MS User -GMLC restriction -Notification to MS User -PLMN Operator Privacy Class -Provisioning State -Activation State -Registration State -PLMN Client List -PLMN client ID (1) -PLMN client ID (n) -MO-LR List -Bașic Self Location Class —Provisioning State —Activation State L-Registration State -Autonomous Self Location Class -Provisioning State -Activation State -Registration State

-Transfer to Third Party Class -Provisioning State -Activation State -Registration State

NOTE: For detailed information see GSM 03.71 and GSM 09.02.

Figure 15: LCS Information

| BEIJING, CHIN | A 15th 19th January 2001 CR-Form-v3 | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|
| CHANGE REQUEST | | | | | | | | | | | | |
| * | 09.02 CR A312 # rev 1 # Current version: 7.7.0 # | | | | | | | | | | | |
| For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the x symbols. | | | | | | | | | | | | |
| Proposed change | e affects: # (U)SIM ME/UE Radio Access Network Core Network X | | | | | | | | | | | |
| Title: | Correction to LCS application context | | | | | | | | | | | |
| Source: | € CN4 | | | | | | | | | | | |
| Work item code: | # LCS Date: ₩ 4.1.2001 | | | | | | | | | | | |
| Category: | F (Agreed by concensus) Release: # R98 | | | | | | | | | | | |
| | Use one 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 one of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1999) REL-4 (Release 4) REL-5 (Release 5) | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Reason for chang | Reason for change: LocationSvcEnquiryContext contains two operations: ProvideSubscriberLocation (GMLC-> MSC) and SubscriberLocationReport (MSC->GMLC). Currently 09.02 allows this AC to be initiated by GMLC although also the MSC shall be able to initiate this AC. | | | | | | | | | | | |
| Summary of char | ge:₩ | | | | | | | | | | | |
| Consequences if | * | | | | | | | | | | | |
| not approved: | | | | | | | | | | | | |
| 0, ,,, | 99 47.00 45 47.00 40 | | | | | | | | | | | |
| Clauses affected: | 第 17.2.2.45, 17.3.2.40 | | | | | | | | | | | |
| Other specs affected: | # Other core specifications # Test specifications O&M Specifications | | | | | | | | | | | |
| Other comments: | lpha | | | | | | | | | | | |
| | | | | | | | | | | | | |

17.2.2.45 Location service enquiry

This operation package includes the operations required for the location service enquiry procedures between GMLC and MSC.

```
LocationSvcEnquiryPackage-v3 ::= OPERATION-PACKAGE

-- Supplier is MSC if Consumer is GMLC

CONSUMER INVOKES {
    provideSubscriberLocation}

SUPPLIER INVOKES {
    subscriberLocationReport}
```

17.2.2.45A Location service reporting

This operation package includes the operations required for the location service enquiry procedures between MSC and GMLC.

```
LocationSvcReportingPackage-v3 ::= OPERATION-PACKAGE

-- Supplier is GMLC if Consumer is MSC

CONSUMER INVOKES {
    subscriberLocationReport}
```

17.3.2.40 Location Service Enquiry

This application context is used for location service enquiry procedures.

```
locationSvcEnquiryContext-v3 APPLICATION-CONTEXT
    -- Responder is MSC if Initiator is GMLC
    -- Responder is GMLC if Initiator is MSC
    INITIATOR CONSUMER OF {
        locationSvcEnquiryPackage-v3,
        locationSvcReportingPackage-v3}
::= {map-ac locationSvc*Enquiry(38) version3 (3)}
```

3GPP TSG-CN4 Meeting #6 Beijing, China, 15-19 Jan.

| CHANGE REQUEST | | | | | | | | | | | |
|-------------------------------|--|---|--|--|--|--|--|--|--|--|--|
| * | 23.016 CR 018 # rev _ # Current v | version: 3.6.0 ** | | | | | | | | | |
| For <u>HELP</u> on u | 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 | work Core Network X | | | | | | | | | |
| Title: ♯ | Alignment about Notification to MS User between 29.002, 23.016 | 23.171(LCS Stage2) and | | | | | | | | | |
| Source: # | CN4 | | | | | | | | | | |
| Work item code: ₩ | LCS Date | e: | | | | | | | | | |
| Category: Ж | Release | : | | | | | | | | | |
| | Use one 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) P (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900. | (Release 1997) (Release 1998) (Release 1999) -4 (Release 4) | | | | | | | | | |
| Reason for change | e: # Alignment between 29.002 , 23.171(LCS Stage2) and | 23.016 | | | | | | | | | |
| Summary of chang | ge: In the 3G TS 29.002 and 23.171(LCS Stage2), the de "Notification to MS User" is defined at Call Related Pri | In the 3G TS 29.002 and 23.171(LCS Stage2), the description related to "Notification to MS User" is defined at Call Related Privacy Class, Call Unrelated Privacy Class and Call Unrelated Privacy Class each of external client. | | | | | | | | | |
| | defined at Call Unrelated Privacy Class each of extern This CR shows that the addition of the description for | In the 3G TS 23.016, the description related to "Notification to MS User" is only defined at Call Unrelated Privacy Class each of external client. This CR shows that the addition of the description for "Notification to MS User" in order to align between 3G TS 23.171, 29.002 and 23.016. | | | | | | | | | |
| Consequences if not approved: | # There is not alignment between 3G TS 29.002, 23.17 | 1 and 23.016. | | | | | | | | | |
| Clauses affected: | ¥ 4.5.4 | | | | | | | | | | |
| Other specs affected: | Contract Specifications Test specifications O&M Specifications | | | | | | | | | | |
| Other comments: | ж | | | | | | | | | | |

How to create CRs using this form:

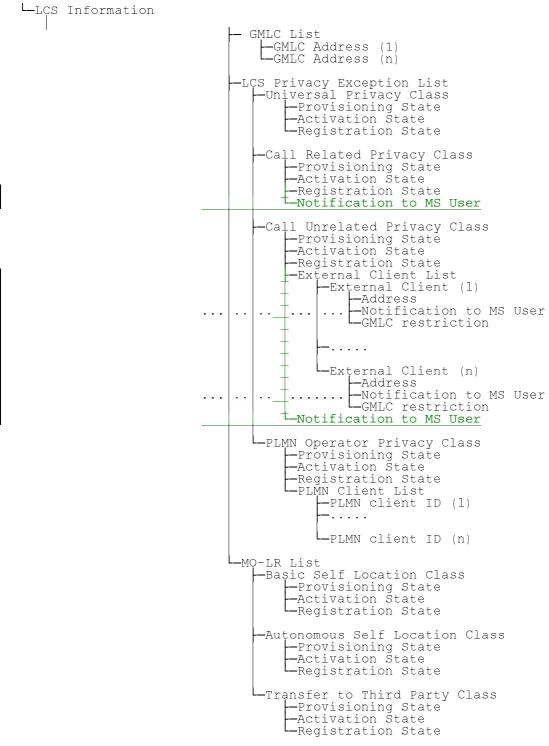
Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G Specs/CRs.htm. Below is a brief summary:

- 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.

4.5.4 Consistency of Supplementary Service data

In some cases, the protocol used between the HLR and VLR encodes some data that is not EBSG-related SS data with an EBSG qualifier. In this case, the HLR shall ensure that when this data is sent it is always the same for all EBSGs. If this data is modified, the HLR must send the supplementary service data to the VLR for all EBSGs which meet all the following criteria:

- at least one basic service in the EBSG is supported; and
- the supplementary service is applicable to at least one (possibly different) basic service in the EBSG; and
- the subscriber has a subscription to at least one (possibly different) basic service in the EBSG.



NOTE: For detailed information see 3GPP 23.171GSM 03.71 and 3GPP 29.002.

Figure 16: LCS Information

Other comments: 第

| BEIJING, CHINA 15th 19th January 2001 CR-Form-v | | | | | | | | | | | |
|---|--------------|--|--|------------|-----------|----------|-------|-------------|---|--------------|--|
| CHANGE REQUEST | | | | | | | | | | | |
| * | 29 | 0.002 | CR | 205 | ₩ rev | 1 | ж | Current vei | rsion: 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 | | | | | | | | | | e Network X | |
| Title: | ж Сc | rrection | n to LCS a | pplication | context | | | | | | |
| Source: | ж <u>С</u> N | ا 4 | | | | | | | | | |
| Work item code: | ж LC | ۰۵ | | | | | | Date: 8 | £ 4.1.2001 | | |
| work item code. | ж LC | ,0 | | | Date. | 4.1.2001 | | | | | |
| Category: | π Α | | | | | | | Release: 8 | € R99 | | |
| | Deta | F (ess A (cor B (Add C (Fur D (Edi ailed exp | one 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) iiled explanations of the above categories can bund in 3GPP TR 21.900. | | | | | 2 | R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) | | |
| | | | | | | | | 5 | | | |
| Reason for chan | ge: ≭ | (GML allows | C-> MSC) | and Subso | criberLoc | ation | Repor | rt (MSC->G | MLC). Curre | ently 29.002 | |
| Summary of cha | nge: ૠ | | | | | | | | | | |
| Consequences in | f ¥€ | , | | | | | | | | | |
| not approved: | | | | | | | | | | | |
| | | | | | | | | | | | |
| Clauses affected | !: ¥ | 17.2. | .2.45, 17.3 | .2.40 | | | | | | | |
| Other specs affected: | * | Te | ther core s est specific &M Specif | | ns } | f | | | | | |

17.2.2.45 Location service enquiry

This operation package includes the operations required for the location service enquiry procedures between GMLC and MSC.

```
LocationSvcEnquiryPackage-v3 ::= OPERATION-PACKAGE

-- Supplier is MSC if Consumer is GMLC

CONSUMER INVOKES {
    provideSubscriberLocation}

SUPPLIER INVOKES {
    subscriberLocationReport}
```

17.2.2.45A Location service reporting

This operation package includes the operations required for the location service enquiry procedures between MSC and GMLC.

```
LocationSvcReportingPackage-v3 ::= OPERATION-PACKAGE

-- Supplier is GMLC if Consumer is MSC

CONSUMER INVOKES {
    subscriberLocationReport}
```

17.3.2.40 Location Service Enquiry

This application context is used for location service enquiry procedures.

```
locationSvcEnquiryContext-v3 APPLICATION-CONTEXT
    -- Responder is MSC if Initiator is GMLC
    -- Responder is GMLC if Initiator is MSC
    INITIATOR CONSUMER OF {
        locationSvcEnquiryPackage-v3,
        locationSvcReportingPackage-v3}
::= {map-ac locationSvc*Enquiry(38) version3 (3)}
```

Other comments: #

| BEIJING, CHINA | . 15t | h 19t | h Jar | nuary | 2001 | | | | | | | | | | |
|--|-------|--|---|--|--|---------------|-------|--------|-------|--------|---|---|---|-------------------------|------|
| CHANGE REQUEST | | | | | | | | | | CR | R-Form-v3 | | | | |
| ж | 29 | .002 | CR | | 206 | ¥ | rev | 1 | ¥ | Cur | rent vei | sion: | 4.2. | 1 | ; |
| For HELP on u | sing | this fo | rm, see | e bottor | m of this | s pa | ge or | look | at th | e pop | o-up tex | t over | the # s | ymbo | ols. |
| Proposed change affects: (U)SIM ME/UE Radio Access Network Core Net | | | | | | | | Netw | ork X | | | | | | |
| Title: ♯ | Со | rrection | n to LC | CS appl | ication (| cont | ext | | | | | | | | |
| Source: # | CN | 4 | | | | | | | | | | | | | |
| Work item code: ₩ | LC | S | | | | | | | | | Date: 8 | € 4.1 | 1.2001 | | |
| Category: | Α | | | | | | | | | Rel | ease: 8 | € RE | L-4 | | |
| | Deta | F (ess A (cor B (Add C (Fur D (Edi ailed exp | ential of respondition of nctional itorial m | correction ds to a control f feature I modificat modificat | correctio e), cation of tion) ne above | n in feati | ure) | | | | R96 R96 R97 R98 R99 REL-4 REL-5 | (GSI (Rela (Rela (Rela (Rela (Rela | ollowing I M Phase ease 199 ease 199 ease 199 ease 4) ease 5) | 2) 16) 17) 18) | es. |
| | | | | | | | | | | | | | | | |
| Reason for change | · # | (GML allows | C-> M | SC) and | d Subso | cribe | erLoc | ationl | Repo | ort (M | SC->G | MLC). | ubscribe Current hall be a | ly 29 | .002 |
| Summary of chang | e: # | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Consequences if not approved: | Ж | | | | | | | | | | | | | | |
| | | 4=0 | 0.45 | 4=00 | 10 | | | | | | | | | | |
| Clauses affected: | Ж | 17.2 | .2.45, | 17.3.2.4 | 40 | | | | | | | | | | |
| Other specs affected: | ж | Te | est spe | ore specedification | | ns | Ħ | 3 | | | | | | | |

17.2.2.45 Location service enquiry

This operation package includes the operations required for the location service enquiry procedures between GMLC and MSC.

```
LocationSvcEnquiryPackage-v3 ::= OPERATION-PACKAGE

-- Supplier is MSC if Consumer is GMLC

CONSUMER INVOKES {
    provideSubscriberLocation}

SUPPLIER INVOKES {
    subscriberLocationReport}
```

17.2.2.45A Location service reporting

This operation package includes the operations required for the location service enquiry procedures between MSC and GMLC.

```
LocationSvcReportingPackage-v3 ::= OPERATION-PACKAGE

-- Supplier is GMLC if Consumer is MSC

CONSUMER INVOKES {
    subscriberLocationReport}
```

17.3.2.40 Location Service Enquiry

This application context is used for location service enquiry procedures.

```
locationSvcEnquiryContext-v3 APPLICATION-CONTEXT
    -- Responder is MSC if Initiator is GMLC
    -- Responder is GMLC if Initiator is MSC
    INITIATOR CONSUMER OF {
        locationSvcEnquiryPackage-v3,
        locationSvcReportingPackage-v3}
::= {map-ac locationSvc*Enquiry(38) version3 (3)}
```