

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

Tdoc NP-010075

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	A	3.7.2
29.002	206	1	N4-010036	Rel-4	Correction to LCS application context	A	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	A	3.6.0

CR-Form-v3
CHANGE REQUEST
⌘ 03.16 CR A043 ⌘ rev - ⌘ Current version: 7.4.0 ⌘

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

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

Title:	⌘ Alignment about Notification to MS User between 09.02 , 03.71(LCS Stage2) and 03.16		
Source:	⌘ CN4		
Work item code:	⌘ LCS		
Date:	⌘ 15/01/2001		
Category:	⌘ F (Agreed by consensus)		
	Release: ⌘ R98		
	<table style="width: 100%; font-size: small;"> <tr> <td style="width: 50%; vertical-align: top;"> 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. </td> <td style="width: 50%; vertical-align: top;"> 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) </td> </tr> </table>	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)
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:	⌘ Alignment between 09.02 , 03.71 and 03.16
Summary of change:	⌘ In the GSM 09.02 and 03.71(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. In the GSM 03.16, 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 GSM 03.71, 09.02 and 03.16.
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:	⌘ <input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications
Other comments:	⌘

How to create CRs using this form:

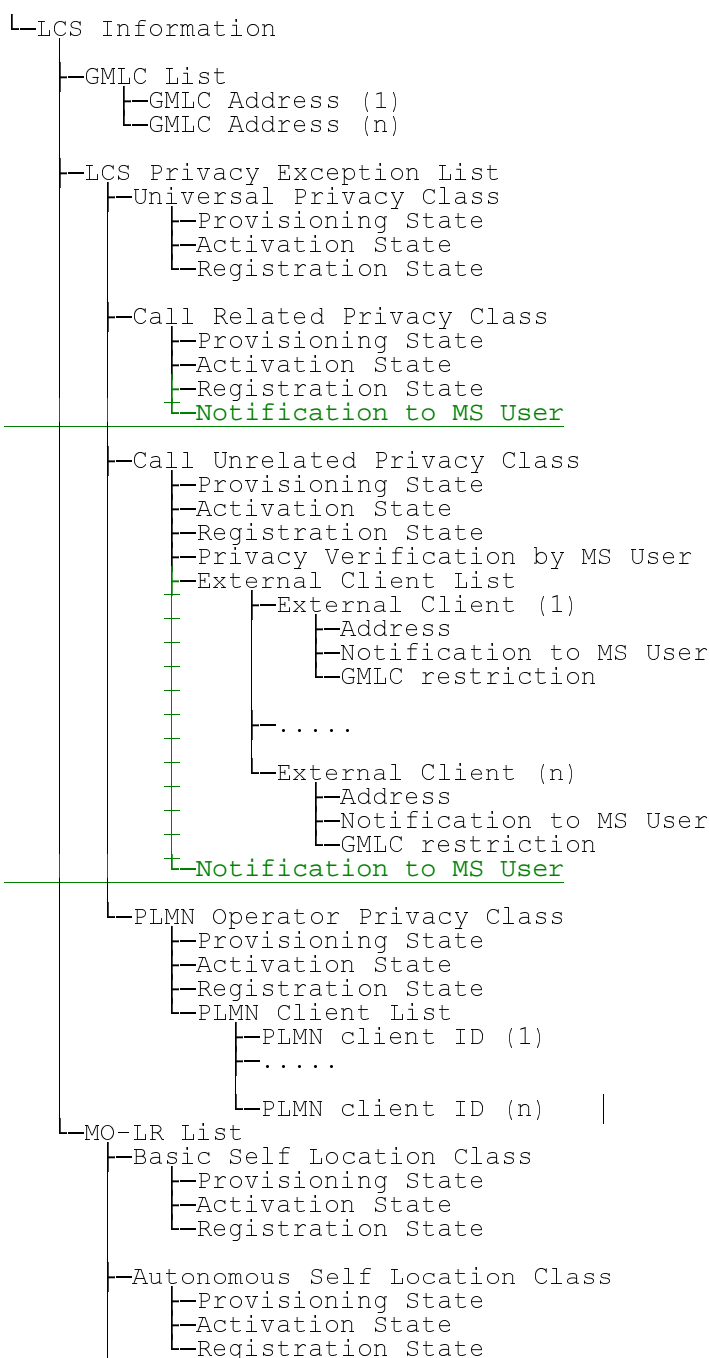
Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

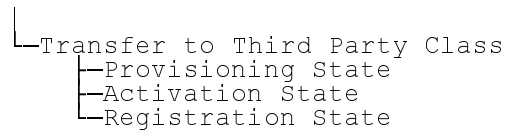
- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") 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.

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 GSM 03.71 and GSM 09.02.

Figure 15: LCS Information

CHANGE REQUEST

⌘ **09.02 CR** **A312** ⌘ rev **1** ⌘ Current version: **7.7.0** ⌘

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

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

Title:	⌘	Correction to LCS application context	
Source:	⌘	CN4	
Work item code:	⌘	LCS	Date: ⌘ 4.1.2001
Category:	⌘	F (Agreed by consensus)	Release: ⌘ R98
		<p><i>Use <u>one</u> of the following categories:</i></p> <p>F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) 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) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)</p>

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 change:	⌘		
Consequences if not approved:	⌘		

Clauses affected:	⌘	17.2.2.45, 17.3.2.40	
Other specs affected:	⌘	<input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘
Other comments:	⌘		

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 locationSvcEnquiry(38) version3 (3)}
```

CHANGE REQUEST

⌘ **23.016 CR 018** ⌘ rev **-** ⌘ Current version: **3.6.0** ⌘

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

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

Title:	⌘	Alignment about Notification to MS User between 29.002 , 23.171(LCS Stage2) and 23.016	
Source:	⌘	CN4	
Work item code:	⌘	LCS	Date: ⌘ 15/01/2001
Category:	⌘	A	Release: ⌘ R99
		<p>Use <u>one</u> of the following categories:</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>Use <u>one</u> of the following releases:</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:	⌘	Alignment between 29.002 , 23.171(LCS Stage2) and 23.016
Summary of change:	⌘	<p>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.</p> <p>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.</p> <p>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.</p>
Consequences if not approved:	⌘	There is not alignment between 3G TS 29.002, 23.171 and 23.016.

Clauses affected:	⌘	4.5.4
Other specs affected:	⌘	<input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications
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:

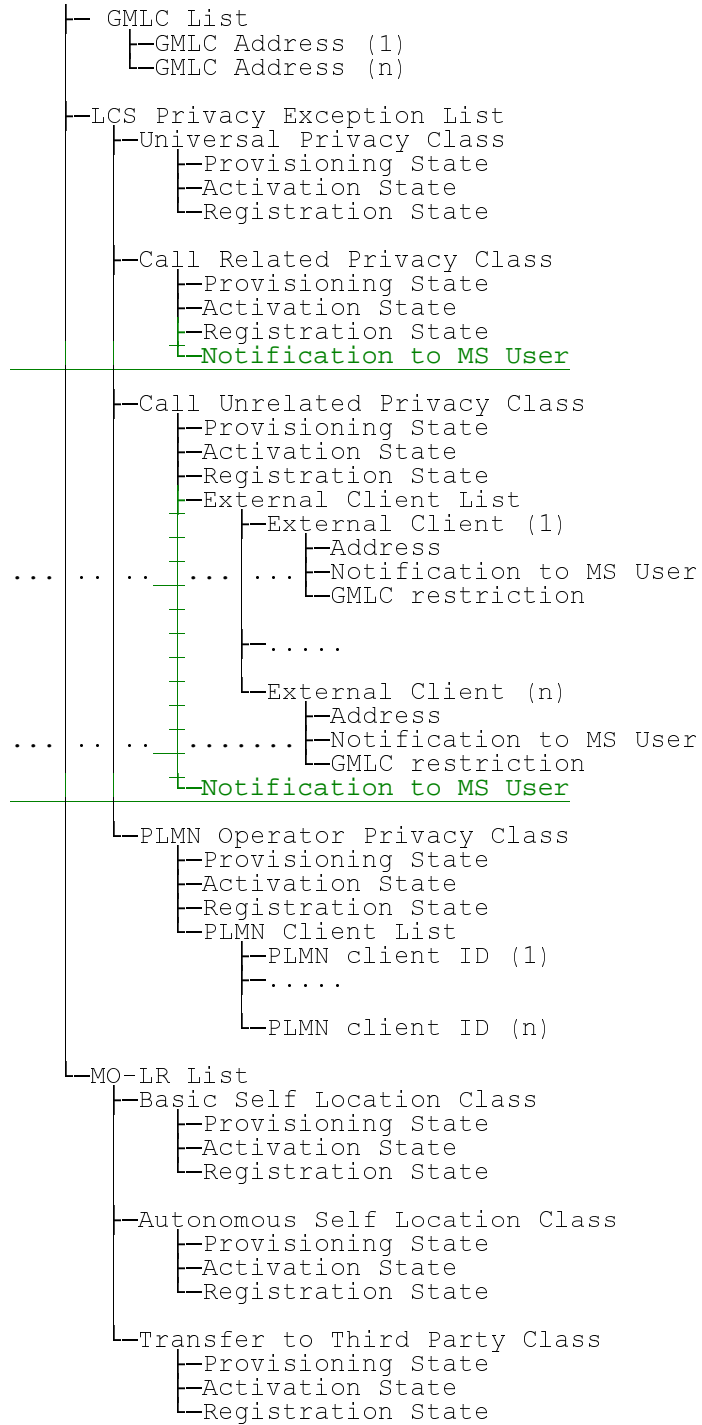
- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") 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.

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.

LCS Information



NOTE: For detailed information see [3GPP 23.171](#) ~~GSM 03.71~~ and 3GPP 29.002.

Figure 16: LCS Information

CHANGE REQUEST

⌘ **29.002 CR** **205** ⌘ rev **1** ⌘ 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:	⌘	Correction to LCS application context	
Source:	⌘	CN4	
Work item code:	⌘	LCS	Date: ⌘ 4.1.2001
Category:	⌘	A	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>
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Reason for change:	⌘	LocationSvcEnquiryContext contains two operations: ProvideSubscriberLocation (GMLC-> MSC) and SubscriberLocationReport (MSC->GMLC). Currently 29.002 allows this AC to be initiated by GMLC although also the MSC shall be able to initiate this AC.	
Summary of change:	⌘		
Consequences if not approved:	⌘		

Clauses affected:	⌘	17.2.2.45, 17.3.2.40	
Other specs affected:	⌘	<input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘
Other comments:	⌘		

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 locationSvcEnquiry(38) version3 (3)}
```

CHANGE REQUEST

⌘ **29.002 CR** **206** ⌘ 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 LCS application context		
Source:	⌘	CN4		
Work item code:	⌘	LCS	Date:	⌘ 4.1.2001
Category:	⌘	A	Release:	⌘ REL-4

<p><i>Use <u>one</u> of the following categories:</i></p> <p>F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) 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) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)</p>
--	--

Reason for change:	⌘	LocationSvcEnquiryContext contains two operations: ProvideSubscriberLocation (GMLC-> MSC) and SubscriberLocationReport (MSC->GMLC). Currently 29.002 allows this AC to be initiated by GMLC although also the MSC shall be able to initiate this AC.		
Summary of change:	⌘			
Consequences if not approved:	⌘			

Clauses affected:	⌘	17.2.2.45, 17.3.2.40		
Other specs affected:	⌘	<input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	
Other comments:	⌘			

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 locationSvcEnquiry(38) version3 (3)}
```