Technical Specification Group Radio Access Network
Marco Island, USA 4 - 7 June 2002

RP#16(02) 0416

TSG_Doc_Num	Specification	CR_Num	Revision_Num	3G_Release	CR_Subject	CR_Category	Cur_Ver_Num	New_Ver_Num	Tdoc_Num	WorkItem
RP-020416	29.108	006		Rel-4	Location Related Data procedure missing	F	4.1.0	4.2.0	R3-021203	TEI
RP-020416	29.108	007		Rel-5	Location Related Data procedure missing	A	5.0.0	5.1.0	R3-021204	TEI

3GPP TSG-RAN WG3 Meeting #29
Gyeongju, Korea, May 13th – 17th, 2002

Tdoc R3-021203

CR-Form-v5

CHANGE REQUEST

⌘ **29.108** **CR** **006** ⌘ **rev** **-** ⌘ Current version: **4.1.0** ⌘

*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:	⌘	Location Related Data procedure missing
Source:	⌘	R-WG3
Work item code:	⌘	TEI
Date:	⌘	2002-04-26
Category:	⌘	**F**
Release:	⌘	REL-4

Use one 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 one 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 Location Related Data procedure and the corresponding messages are missing in 29.108.
Summary of change:	⌘	The Location Related Data procedure and the corresponding messages are added to 29.108. Impact assessment towards the previous version of the specification (same release): This CR has isolated impact towards the previous version of the specification (same release). This CR has an impact under functional point of view. The impact can be considered isolated because it only affects the Location Related Data procedure.
Consequences if not approved:	⌘	The Location Related Data procedure can not be used in MAP-E signalling.

Clauses affected:	⌘	5, 6		
Other specs affected:	⌘	☒ Other core specifications ☐ Test specifications ☐ O&M Specifications	⌘	29.108 V5.0.0 CR007
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://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 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.

5 Use of the RANAP on the E-interface

The dedicated RANAP procedures used on the E-interface to some extent are:

- RAB assignment;
- RAB Release Request;
- Iu Release Request;
- Relocation resource allocation;
- Relocation Detect;
- Relocation Complete;
- Relocation Cancel;
- CN Invoke Trace;
- Security mode control;
- Location Reporting Control;
- Location Report;
- Direct Transfer;
- Error Indication;
- Common ID;
- Location Related Data.

5.1 RAB Assignment

The RAB Assignment procedure (TS 25.413 subclause 8.2) is applied on the E-interface with following conditions:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

The handling of terrestrial resources is not applicable, i.e. the RANAP IEs *Transport Layer Address* and *Iu Transport Association* will be assigned by the 3G_MSC-I.

5.2 RAB Release Request

For the RAB Release Request procedure (TS 25.413 subclauses 8.3) the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-I acts as the RNS;
- the 3G_MSC-A acts as the 3G_MSC.

5.3 Iu Release Request

For the Iu Release Request procedure (TS 25.413 subclause 8.4) the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-I acts as the RNS;
- the 3G_MSC-A acts as the 3G_MSC.

5.4 Relocation Resource Allocation

At basic Inter-3G_MSC relocation (TS 23.009) the Relocation Resource Allocation procedure (TS 25.413 subclause 8.7) is applied on the E-interface with the following conditions:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-T acts as the target RNS.

At subsequent Inter-3G_MSC relocation the Relocation Resource Allocation procedure is applied on the E-interface with the following conditions:

- the 3G_MSC-I acts as the 3G_MSC;
- the 3G_MSC-T acts as the RNS;
- if the 3G_MSC that is the 3G_MSC-A is not also the 3G_MSC-T, then this 3G_MSC shall act as the target RNS towards the 3G_MSC-I and as the 3G_MSC towards the 3G_MSC-T.

The handling of terrestrial resources is not applicable, i.e. the RANAP IEs *Transport Layer Address* and *Iu Transport Association* will be assigned by the 3G_MSC-T.

5.5 Relocation Cancel

For subsequent Inter-3G_MSC relocation the Relocation Cancel procedure (TS 25.413 subclause 8.10) is applied on the E-interface with the following conditions.

- the 3G_MSC-A, acts as the 3G_MSC;
- the 3G_MSC-I, acts as the serving RNS.

5.6 Relocation Detect and Relocation Complete

For the Relocation Detect and Relocation Complete procedure (TS 25.413 subclauses 8.8 and 8.9) the applicable parts on the E-interface are the transfer of RELOCATION DETECT, RELOCATION COMPLETE messages at inter 3G_MSC relocation. For those parts, the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-T acts as the target RNS.

5.7 CN Trace invocation

For the CN Trace invocation procedure (TS 25.413, subclause 8.17), the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.8 Security mode control

For the Security mode control procedure (TS 25.413, subclause 8.18), the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.9 Location Reporting Control

For the Location Reporting Control procedure (TS 25.413, subclause 8.19), the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.10 Location Report

For the Location Report procedure (TS 25.413, subclause 8.20, the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.11 Direct Transfer

For the Direct Transfer procedure (TS 25.413, subclause 8.23), the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.12 Error Indication

For the Error Indication procedure (TS 25.413, subclause 8.27), the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.13 CN Deactivate Trace

For the Error Indication procedure (TS 25.413, subclause 8.28), the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.14 Common ID

For the Common ID procedure (TS 25.413, subclause 8.16), the involved 3G MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.15 Location Related Data

For the Location Related Data procedure (TS 25.413, subclause 8.31), the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

6 RANAP messages transferred on the E-interface

The list given below shows the RANAP messages, defined in TS 25.413 subclause 9.1(tabular format) and 9.3 (ASN.1 notation) that are transferred on the E-interface.

RAB ASSIGNMENT REQUEST	(3G_MSC-A -> 3G_MSC-I)
RAB ASSIGNMENT RESPONSE	(3G_MSC-I -> 3G_MSC-A)
RAB RELEASE REQUEST	(3G_MSC-I -> 3G_MSC-A)
IU RELEASE REQUEST	(3G_MSC-I -> 3G_MSC-A)
RELOCATION REQUEST	(3G_MSC-A -> 3G_MSC-T and 3G_MSC-I -> 3G_MSC-A)
RELOCATION REQUEST ACKNOWLEDGE	(3G_MSC-T -> 3G_MSC-A and 3G_MSC-A -> 3G_MSC-I)
RELOCATION DETECT	(3G_MSC-T -> 3G_MSC-A)
RELOCATION COMPLETE	(3G_MSC-T -> 3G_MSC-A)
RELOCATION FAILURE	(3G_MSC-T -> 3G_MSC-A and 3G_MSC-I -> 3G_MSC-A)
RELOCATION CANCEL	(3G_MSC-I -> 3G_MSC-A)
RELOCATION CANCEL ACKNOWLEDGE	(3G_MSC-A -> 3G_MSC-I)
CN INVOKE TRACE	(3G_MSC-A -> 3G_MSC-I)
SECURITY MODE COMMAND	(3G_MSC-A -> 3G_MSC-I)
SECURITY MODE COMPLETE	(3G_MSC-I -> 3G_MSC-A)
SECURITY MODE REJECT	(3G_MSC-I -> 3G_MSC-A)
LOCATION REPORTING CONTROL	(3G_MSC-A -> 3G_MSC-I)
LOCATION REPORT	(3G_MSC-I -> 3G_MSC-A)
DIRECT TRANSFER	(3G_MSC-A -> 3G_MSC-I and 3G_MSC-I -> 3G_MSC-A)
ERROR INDICATION	(3G_MSC-A -> 3G_MSC-I and 3G_MSC-I -> 3G_MSC-A)
CN DEACTIVATE TRACE	(3G_MSC-A -> 3G_MSC-I)
COMMON ID	(3G_MSC-A->3G_MSC-I)
LOCATION RELATED DATA REQUEST	(3G_MSC-A -> 3G_MSC-I)
LOCATION RELATED DATA RESPONSE	(3G_MSC-I -> 3G_MSC-A)
LOCATION RELATED DATA FAILURE	(3G_MSC-I -> 3G_MSC-A)

All other RANAP messages shall be considered as non-existent on the E-interface.

3GPP TSG-RAN WG3 Meeting #29
Gyeongju, Korea, May 13th – 17th, 2002

Tdoc R3-021204

CR-Form-v5

CHANGE REQUEST

⌘ **29.108** **CR** **007** ⌘ **rev** **-** ⌘ Current version: **5.0.0** ⌘

*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:	⌘	Location Related Data procedure missing
Source:	⌘	R-WG3
Work item code:	⌘	TEI
Date:	⌘	2002-04-26
Category:	⌘	**A**
Release:	⌘	REL-5

Use one 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 one 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 Location Related Data procedure and the corresponding messages are missing in 29.108.
Summary of change:	⌘	The Location Related Data procedure and the corresponding messages are added to 29.108. Impact assessment towards the previous version of the specification (same release): This CR has isolated impact towards the previous version of the specification (same release). This CR has an impact under functional point of view. The impact can be considered isolated because it only affects the Location Related Data procedure.
Consequences if not approved:	⌘	The Location Related Data procedure can not be used in MAP-E signalling.

Clauses affected:	⌘	5, 6		
Other specs affected:	⌘	☒ Other core specifications ☐ Test specifications ☐ O&M Specifications	⌘	29.108 V4.1.0 CR006
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://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 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.

5 Use of the RANAP on the E-interface

The dedicated RANAP procedures used on the E-interface to some extent are:

- RAB assignment;
- RAB Release Request;
- Iu Release Request;
- Relocation resource allocation;
- Relocation Detect;
- Relocation Complete;
- Relocation Cancel;
- CN Invoke Trace;
- Security mode control;
- Location Reporting Control;
- Location Report;
- Direct Transfer;
- Error Indication;
- Common ID;
- Location Related Data.

5.1 RAB Assignment

The RAB Assignment procedure (TS 25.413 subclause 8.2) is applied on the E-interface with following conditions:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

The handling of terrestrial resources is not applicable, i.e. the RANAP IEs *Transport Layer Address* and *Iu Transport Association* will be assigned by the 3G_MSC-I.

5.2 RAB Release Request

For the RAB Release Request procedure (TS 25.413 subclauses 8.3) the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-I acts as the RNS;
- the 3G_MSC-A acts as the 3G_MSC.

5.3 Iu Release Request

For the Iu Release Request procedure (TS 25.413 subclause 8.4) the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-I acts as the RNS;
- the 3G_MSC-A acts as the 3G_MSC.

5.4 Relocation Resource Allocation

At basic Inter-3G_MSC relocation (TS 23.009) the Relocation Resource Allocation procedure (TS 25.413 subclause 8.7) is applied on the E-interface with the following conditions:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-T acts as the target RNS.

At subsequent Inter-3G_MSC relocation the Relocation Resource Allocation procedure is applied on the E-interface with the following conditions:

- the 3G_MSC-I acts as the 3G_MSC;
- the 3G_MSC-T acts as the RNS;
- if the 3G_MSC that is the 3G_MSC-A is not also the 3G_MSC-T, then this 3G_MSC shall act as the target RNS towards the 3G_MSC-I and as the 3G_MSC towards the 3G_MSC-T.

The handling of terrestrial resources is not applicable, i.e. the RANAP IEs *Transport Layer Address* and *Iu Transport Association* will be assigned by the 3G_MSC-T.

5.5 Relocation Cancel

For subsequent Inter-3G_MSC relocation the Relocation Cancel procedure (TS 25.413 subclause 8.10) is applied on the E-interface with the following conditions.

- the 3G_MSC-A, acts as the 3G_MSC;
- the 3G_MSC-I, acts as the serving RNS.

5.6 Relocation Detect and Relocation Complete

For the Relocation Detect and Relocation Complete procedure (TS 25.413 subclauses 8.8 and 8.9) the applicable parts on the E-interface are the transfer of RELOCATION DETECT, RELOCATION COMPLETE messages at inter 3G_MSC relocation. For those parts, the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-T acts as the target RNS.

5.7 CN Trace invocation

For the CN Trace invocation procedure (TS 25.413, subclause 8.17), the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.8 Security mode control

For the Security mode control procedure (TS 25.413, subclause 8.18), the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.9 Location Reporting Control

For the Location Reporting Control procedure (TS 25.413, subclause 8.19), the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.10 Location Report

For the Location Report procedure (TS 25.413, subclause 8.20, the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.11 Direct Transfer

For the Direct Transfer procedure (TS 25.413, subclause 8.23), the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.12 Error Indication

For the Error Indication procedure (TS 25.413, subclause 8.27), the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.13 CN Deactivate Trace

For the Error Indication procedure (TS 25.413, subclause 8.28), the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.14 Common ID

For the Common ID procedure (TS 25.413, subclause 8.16), the involved 3G MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

5.15 Location Related Data

For the Location Related Data procedure (TS 25.413, subclause 8.31), the involved 3G_MSCs shall act according to the following:

- the 3G_MSC-A acts as the 3G_MSC;
- the 3G_MSC-I acts as the RNS.

6 RANAP messages transferred on the E-interface

The list given below shows the RANAP messages, defined in TS 25.413 subclause 9.1(tabular format) and 9.3 (ASN.1 notation) that are transferred on the E-interface.

RAB ASSIGNMENT REQUEST	(3G_MSC-A -> 3G_MSC-I)
RAB ASSIGNMENT RESPONSE	(3G_MSC-I -> 3G_MSC-A)
RAB RELEASE REQUEST	(3G_MSC-I -> 3G_MSC-A)
IU RELEASE REQUEST	(3G_MSC-I -> 3G_MSC-A)
RELOCATION REQUEST	(3G_MSC-A -> 3G_MSC-T and 3G_MSC-I -> 3G_MSC-A)
RELOCATION REQUEST ACKNOWLEDGE	(3G_MSC-T -> 3G_MSC-A and 3G_MSC-A -> 3G_MSC-I)
RELOCATION DETECT	(3G_MSC-T -> 3G_MSC-A)
RELOCATION COMPLETE	(3G_MSC-T -> 3G_MSC-A)
RELOCATION FAILURE	(3G_MSC-T -> 3G_MSC-A and 3G_MSC-I -> 3G_MSC-A)
RELOCATION CANCEL	(3G_MSC-I -> 3G_MSC-A)
RELOCATION CANCEL ACKNOWLEDGE	(3G_MSC-A -> 3G_MSC-I)
CN INVOKE TRACE	(3G_MSC-A -> 3G_MSC-I)
SECURITY MODE COMMAND	(3G_MSC-A -> 3G_MSC-I)
SECURITY MODE COMPLETE	(3G_MSC-I -> 3G_MSC-A)
SECURITY MODE REJECT	(3G_MSC-I -> 3G_MSC-A)
LOCATION REPORTING CONTROL	(3G_MSC-A -> 3G_MSC-I)
LOCATION REPORT	(3G_MSC-I -> 3G_MSC-A)
DIRECT TRANSFER	(3G_MSC-A -> 3G_MSC-I and 3G_MSC-I -> 3G_MSC-A)
ERROR INDICATION	(3G_MSC-A -> 3G_MSC-I and 3G_MSC-I -> 3G_MSC-A)
CN DEACTIVATE TRACE	(3G_MSC-A -> 3G_MSC-I)
COMMON ID	(3G_MSC-A->3G_MSC-I)
LOCATION RELATED DATA REQUEST	(3G_MSC-A -> 3G_MSC-I)
LOCATION RELATED DATA RESPONSE	(3G_MSC-I -> 3G_MSC-A)
LOCATION RELATED DATA FAILURE	(3G_MSC-I -> 3G_MSC-A)

All other RANAP messages shall be considered as non-existent on the E-interface.