TSG-RAN Meeting #10
Bangkok, Thailand, 6 - 8 December 2000

TSGRP#10(00)0634

Title: **Agreed CRs to TS 29.108**

Source: **TSG-RAN WG3**

Agenda item: **5.3.3**

Tdoc_Num	Specification	CR_Num	Revision_Nu	CR_Subject	CR_Categor	WG_Status	Cur_Ver_Nu	New_Ver_Nu
R3-002849	29.108	001	1	Handling of Iu Signalling Connection Identifier IE	F	agreed	3.0.0	3.1.0
R3-002837	29.108	002	1	Addition of Common Id procedure on the E-interface	F	agreed	3.0.0	3.1.0

3GPP TSG RAN3 Meeting #16
Windsor, UK, 16-20 Oct 2000

***Document* R3-002849**
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

29.108	CR	1r1	Current Version:	3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG RAN#10	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [ ] UTRAN / Radio [ ] Core Network [X]

Source: R-WG3 **Date:** 2000-10-19

Subject: Handling of *Iu Signalling Connection Identifier* IE within the RELOCATION REQUEST message at the receiving MSC

Work item:

Category: *(only one category shall be marked with an X)*

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change: The handling of *Iu Signalling Connection Identifier* IE within the RELOCATION REQUEST message at the receiving node is missing in 29.108. This identifier only makes sense for a particular Iu connection. Therefore, the handling by the receiving entity when the RELOCATION REQUEST message is sent over the E interface has to be specified: it shall ignore this IE.

If this CR is not approved, the receiving MSC does not know how to interpret the *Iu Signalling Connection Identifier* IE within the RELOCATION REQUEST message.

Clauses affected: 7.1

Other specs affected:

Other 3G core specifications		→ List of CRs:	
Other GSM core specifications		→ List of CRs:	
MS test specifications		→ List of CRs:	
BSS test specifications		→ List of CRs:	
O&M specifications		→ List of CRs:	

Other comments:


help.doc

<--------- double-click here for help and instructions on how to create a CR.

7.1 Message Contents

For the applicable RANAP messages transferred on the E-interface the following exceptions to the descriptions in TS 25.413 are valid:

RAB ASSIGNMENT REQUEST message

- *Transport Layer Address* IE

  if received, this IE shall be ignored

- *Iu Transport Association* IE

  if received, this IE shall be ignored

- *UP Mode Versions* IE

  the information given within this IE is only useful in case of TrFO

RELOCATION REQUEST message

- *Transport Layer Address* IE

  if received, this IE shall be ignored

- *Iu Transport Association* IE

  if received, this IE shall be ignored

- *UP Mode Versions* IE

  the information given within this IE is only useful in case of TrFO

- *Iu Signalling Connection Identifier* IE

  if received, this IE shall be ignored.

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Document R3-002837
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

29.108	CR	002r1	Current Version:	3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to: RAN#10 *list expected approval meeting # here ↑*

for approval [X]
for information [ ]

strategic [ ]
non-strategic [ ]
(for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*
(U)SIM [ ] ME [ ] UTRAN / Radio [ ] Core Network [X]

Source: R-WG3 **Date:** 19.10.2000

Subject: Addition of Common Id procedure on the E-interface

Work item:

Category: *(only one category shall be marked with an X)*

F	Correction	[X]	**Release:**	Phase 2	[ ]
A	Corresponds to a correction in an earlier release	[ ]		Release 96	[ ]
B	Addition of feature	[ ]		Release 97	[ ]
C	Functional modification of feature	[ ]		Release 98	[ ]
D	Editorial modification	[ ]		Release 99	[X]
				Release 00	[ ]

Reason for change:

RANAP Common ID procedure is currently missing from 3G TS 29.108, which defines the RANAP procedures used on the E-interface. As defined in the 3G TS 25.413 the purpose of the Common ID procedure is to inform the RNC about the IMSI of a user. This is done at Iu-interface with Common ID message as soon as IMSI is known by the MSC and also during handover procedure in Relocation Request message to the target RNC.

The current version of 3G TS 29.108 enables IMSI transmission on E-interface during relocation signalling, but IMSI is not always known e.g. during signalling channel handover. Then, if proposed correction is not applied, the target RNC will not receive the IMSI, because MSC-I will not be able to independently issue a Common Id procedure to the target RNC. To correct this, the sending of Common ID message on the E-interface needs to be allowed as soon as the IMSI of a user is available in the MSC-A.

Clauses affected: 5, 5.xx, 6

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

help.doc

<--------- double-click here for help and instructions on how to create a CR.

Modified section

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

New section

5.~~1~~4xx 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.

Modified section

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)

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