

Source: TSG CN WG 1
Title: CR to Rel-4 (with mirror CR) on Work Item GSM/UMTS interworking towards 23.009
Agenda item: 7.6
Document for: APPROVAL

Introduction:

This document contains 2 CRs, **Rel-4 with mirror to Work Item " GSM/UMTS interworking"**, that have been agreed by **TSG CN WG1 in CN1#32 meeting**, and are forwarded to TSG CN Plenary meeting #22 for approval.

The CRs have been endorsed by CN4.

TDoc #	Tdoc Title	Spec	CR #	Rev	CAT	C_Version	Rel
N1-031509	Correcting a mistake in previously approved category A of its Rel99 category F CR 091 Rev 1 in NP-030041	23.009	100		F	4.8.0	Rel-4
N1-031510	Correcting a mistake in previously approved category A of its Rel99 category F CR 091 Rev 1 in NP-030041	23.009	101		A	5.6.0	Rel-5

CHANGE REQUEST

⌘ **23.009 CR 100** ⌘ rev **-** ⌘ 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

Title:	⌘	Correcting a mistake in previously approved category A of its Rel99 category F CR 091 Rev 1 in NP-030041	
Source:	⌘	Ericsson	
Work item code:	⌘	GSM/UMTS interworking	Date: ⌘ 17/10/2003
Category:	⌘	F	Release: ⌘ Rel-4
		Use <u>one</u> of the following categories:	Use <u>one</u> of the following releases:
		F (correction)	2 (GSM Phase 2)
		A (corresponds to a correction in an earlier release)	R96 (Release 1996)
		B (addition of feature),	R97 (Release 1997)
		C (functional modification of feature)	R98 (Release 1998)
		D (editorial modification)	R99 (Release 1999)
		Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	⌘	Due to a copy paste error, the Rel-4 category A CR 092 approved in NP-030041 at plenary #19 is not an exact mirror of its Rel99 category F CR 091.
Summary of change:	⌘	Changing BSSAP to RANAP.
Consequences if not approved:	⌘	Wrong protocol and not compliant with R99.

Clauses affected:	⌘	8.3								
Other specs affected:	⌘	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications ⌘ Test specifications ⌘ O&M Specifications ⌘	Y	N		X		X		X
Y	N									
	X									
	X									
	X									
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/specs/CR.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.

8.3 SRNS Relocation

The following clauses describe two options for the Basic and Subsequent Relocation procedures. The first, as described in clauses 8.3.1 and 8.3.3 respectively, provides for a circuit connection between 3G_MSC-A and 3G_MSC-B. The second, as described in clauses 8.3.2 and 8.3.4 respectively, provides for a Basic and Subsequent Relocation without the provision of a circuit connection between 3G_MSC-A and 3G_MSC-B.

In all the above mentioned clauses, the following principles apply:

- a) during the relocation resource allocation, except for the messages explicitly indicated in b and c below, only the relocation related messages that are part of the applicable RANAP subset - as defined in 3GPP TS 29.108 [15] - shall be transferred on the E-interface;
- b) the trace related messages that are part of the applicable RANAP subset - as defined in 3GPP TS 29.108 [15] - can be sent by the 3G_MSC-A on the E-interface after successful relocation resource allocation. In the clauses 8.3.1 and 8.3.2, it is however allowed at basic relocation initiation on the E-Interface to transfer one trace invocation related message that is part of the applicable RANAP subset - as defined in 3GPP TS 29.108 [15] - together with the applicable relocation related message. The applicable relocation related message shall always appear as the first message;
- c) during the handover resource allocation for subsequent inter-MSC inter-system handover according to subclauses 8.3.3 and 8.3.4, it is allowed to transfer either DTAP or RANAP Direct Transfer messages on the E-Interface between MSC-A and 3G_MSC-B. RANAP Direct Transfer messages shall be used for this purpose if and only if the basic handover procedure was an inter MSC SRNS relocation;
- d) during the relocation execution, i.e. while the UE is not in communication with the network, the 3G_MSC-A shall queue all outgoing RANAP or RANAP messages until the communication with the UE is resumed;
- e) during the execution of a basic inter-MSC SRNS relocation to 3G_MSC-B or a subsequent inter-MSC SRNS relocation to a third 3G-MSC-B', only the relocation related messages and the Iu-Release-Request message that are part of the applicable RANAP subset - as defined in 3GPP TS 29.108 [15] - may be sent by the target MSC on the E-interface;
- f) during a subsequent inter-MSC SRNS relocation back to 3G_MSC-A or to a third 3G_MSC-B', 3G_MSC-B may initiate either an Iu-Release-Request procedure or an A-Clear-Request procedure on the E-interface. An Iu-Release-Request procedure shall be initiated only if the basic handover procedure was an inter-MSC SRNS relocation;
- g) finally, during supervision, i.e. while the UE is not in the area of 3G_MSC-A after a successful Inter-3G_MSC relocation, the subset of RANAP procedures and their related messages - as defined in 3GPP TS 29.108 [15] - shall apply on the E-Interface. As an exception to this rule, 3G_MSC-B shall notify 3G_MSC-A of a successfully completed subsequent intra-MSC-B intra GSM or inter-system handover by using the Internal Handover Indication procedure as specified in 3GPP TS 49.008 [7]. Furthermore, in case of a subsequent inter-MSC intra GSM or inter-system handover back to 3G_MSC-A or to a third 3G_MSC-B', during the handover resource allocation, the handover and trace related messages that are part of the applicable BSSAP subset - as defined in 3GPP TS 49.008 [7] - shall be transferred on the E-interface (see list items a and b in clause 7, subclause 8.1, and 8.2, respectively).

If a subsequent inter-MSC handover/relocation back to 3G_MSC-A or to a third 3G_MSC-B' is cancelled, then the supervision continues, and **BSSAP-RANAP** procedures and their related messages shall apply on the E-interface.

NOTE: A subsequent inter-MSC intra GSM or GSM to UMTS inter-system handover back to 3G_MSC-A or to a third 3G_MSC-B' can occur, e.g., if after the basic inter-MSC SRNS relocation to 3G_MSC-B the MS performed a subsequent intra-3G_MSC-B UMTS to GSM inter-system handover;

- h) during the intra-3G_MSC-B relocation execution, if any, the 3G_MSC-B shall queue all outgoing RANAP messages until the communication with the UE is resumed;
- i) after successful completion of the Intra-3G_MSC-B relocation, if 3G_MSC-B or 3G-MSC-B' has previously received an order to perform location reporting at change of Service Area from 3G_MSC-A, it shall act as specified in subclause 6.2.3.

CHANGE REQUEST

⌘ **23.009 CR 101** ⌘ rev **-** ⌘ Current version: **5.6.0** ⌘

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Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘	Correcting a mistake in previously approved category A of its Rel99 category F CR 091 Rev 1 in NP-030041
Source:	⌘	Ericsson
Work item code:	⌘	GSM/UMTS interworking
		Date: ⌘ 17/10/2003
Category:	⌘	A
		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 .
		Release: ⌘ Rel-5
		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:	⌘	Due to a copy paste error, the Rel-5 category A CR 093 approved in NP-030041 at plenary #19 is not an exact mirror of its Rel99 category F CR 091.
Summary of change:	⌘	Changing BSSAP to RANAP.
Consequences if not approved:	⌘	Wrong protocol and not compliant with R99.

Clauses affected:	⌘	8.3								
Other specs affected:	⌘	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications	Y	N		X		X		X
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	X									
	X									
	X									
		⌘								
Other comments:	⌘									

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In all the above mentioned clauses, the following principles apply:

- a) during the relocation resource allocation, except for the messages explicitly indicated in b and c below, only the relocation related messages that are part of the applicable RANAP subset - as defined in 3GPP TS 29.108 [15] - shall be transferred on the E-interface;
- b) the trace related messages that are part of the applicable RANAP subset - as defined in 3GPP TS 29.108 [15] - can be sent by the 3G_MSC-A on the E-interface after successful relocation resource allocation. In the clauses 8.3.1 and 8.3.2, it is however allowed at basic relocation initiation on the E-Interface to transfer one trace invocation related message that is part of the applicable RANAP subset - as defined in 3GPP TS 29.108 [15] - together with the applicable relocation related message. The applicable relocation related message shall always appear as the first message;
- c) during the relocation resource allocation for subsequent inter-MSC SRNS relocation according to subclauses 8.3.3 and 8.3.4, it is allowed to transfer either DTAP or RANAP Direct Transfer messages on the E-Interface between 3G_MSC-A and 3G_MSC-B. RANAP Direct Transfer messages shall be used for this purpose if and only if the basic handover procedure was an inter MSC SRNS relocation;
- d) the Iu-Location Reporting Control message which belongs to the applicable RANAP subset - as defined in 3GPP TS 29.108 [15] - can be sent by the 3G_MSC-A on the E-interface after successful relocation resource allocation;
- e) during the relocation execution, i.e. while the UE is not in communication with the network, the 3G_MSC-A shall queue all outgoing RANAP or BSSAP messages until the communication with the UE is resumed;
- f) during the execution of a basic inter-MSC SRNS relocation to 3G_MSC-B or a subsequent inter-MSC SRNS relocation to a third 3G-MSC-B', only the relocation related messages and the Iu-Release-Request message that are part of the applicable RANAP subset - as defined in 3GPP TS 29.108 [15] - may be sent by the target MSC on the E-interface;
- g) during a subsequent inter-MSC SRNS relocation back to 3G_MSC-A or to a third 3G_MSC-B', 3G_MSC-B may initiate either an Iu-Release-Request procedure or an A-Clear-Request procedure on the E-interface. An Iu-Release-Request procedure shall be initiated only if the basic handover procedure was an inter-MSC SRNS relocation;
- h) finally, during supervision, i.e. while the UE is not in the area of 3G_MSC-A after a successful Inter-3G_MSC relocation, the subset of RANAP procedures and their related messages - as defined in 3GPP TS 29.108 [15] - shall apply on the E-Interface. As an exception to this rule, 3G_MSC-B shall notify 3G_MSC-A of a successfully completed subsequent intra-MSC-B intra GSM or inter-system handover by using the Internal Handover Indication procedure as specified in 3GPP TS 49.008 [7]. Furthermore, in case of a subsequent inter-MSC intra GSM or inter-system handover back to 3G_MSC-A or to a third 3G_MSC-B', during the handover resource allocation, the handover and trace related messages that are part of the applicable BSSAP subset - as defined in 3GPP TS 49.008 [7] - shall be transferred on the E-interface (see list items a and b in clause 7, subclause 8.1, and 8.2, respectively).

If a subsequent inter-MSC handover/relocation back to 3G_MSC-A or to a third 3G_MSC-B' is cancelled, then the supervision continues, and **BSSAP-RANAP** procedures and their related messages shall apply on the E-interface.

NOTE: A subsequent inter-MSC intra GSM or GSM to UMTS inter-system handover back to 3G_MSC-A or to a third 3G_MSC-B' can occur, e.g., if after the basic inter-MSC SRNS relocation to 3G_MSC-B the MS performed a subsequent intra-3G_MSC-B UMTS to GSM inter-system handover;

- i) during the intra-3G_MSC-B relocation execution, if any, the 3G_MSC-B shall queue all outgoing RANAP messages until the communication with the UE is resumed.

- j) after successful completion of the Intra-3G_MSC-B relocation, if 3G_MSC-B or 3G-MSC-B' has previously received an order to perform location reporting at change of Service Area from 3G_MSC-A, it shall act as specified in subclause 6.2.3.