

TSG RAN Meeting #21
Frankfurt, Germany, 16 - 19 September 2003

RP-030437

Title CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.413 on Essential Correction of Iu Release Request
Source TSG RAN WG3
Agenda Item 7.4.3

RAN3 Tdoc	Spec	curr. Vers.	new Vers.	REL	CR	Rev	Cat	Title	Work item
R3-031141	25.413	3.13.0	3.14.0	R99	582	1	F	Essential Correction of Iu Release Request	TEI
R3-031142	25.413	4.9.0	4.10.0	REL-4	583	1	A	Essential Correction of Iu Release Request	TEI
R3-031143	25.413	5.5.0	5.6.0	REL-5	584	1	A	Essential Correction of Iu Release Request	TEI

3GPP TSG-RAN3 Meeting #37
 Budapest, Hungary, 25th-29th August 2003

Tdoc #R3-031141

CR-Form-v7	
CHANGE REQUEST	
# 25.413 CR 582 # rev 1 #	Current version: 3.13.0 #

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:	# Essential Correction of Iu Release Request issue		
Source:	# RAN3		
Work item code:	# TEI	Date:	# 25/08/2003
Category:	# F	Release:	# R99
	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:	# The current text in RANAP leaves the full optionality to a CN node on how to react to an Iu Release Request received from the RNC whereas the correct behaviour expected by the RNC is to have the Iu released whenever the cause value set in the Iu Release Request is different than 'user inactivity'.
Summary of change:	# The CN node is expected to release the Iu whenever the RNC sends an Iu Release Request for other reason than 'user inactivity'. <u>Impact assessment towards the previous version of the specification (same release):</u> 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 Iu Release Request system functions.
Consequences if not approved:	# Desynchronisation states between UE, RNC and CN. Serious damages such as contexts pending in case of radio or transport failures in the RNC.

Clauses affected:	# 8.4.2								
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td>X</td> </tr> </table> Other core specifications	Y	N	X			X	#	TS 25.413 REL-4 CR583rev1 TS 25.413 REL-5 CR584rev1
Y	N								
X									
	X								

<input checked="" 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/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.

8.4 Iu Release Request

8.4.1 General

The purpose of the Iu Release Request procedure is to enable UTRAN to request the CN to release the Iu connection for a particular UE due to some UTRAN generated reason (e.g. "O&M Intervention", "Unspecified Failure", "User Inactivity", "Repeated Integrity Checking Failure", "Release due to UE generated signalling connection release", "Radio Connection With UE Lost"). The procedure uses connection oriented signalling.

8.4.2 Successful Operation



Figure 3: Iu Release Request procedure. Successful operation.

The RNS controlling the Iu connection(s) of that particular UE shall initiate the procedure by generating an IU RELEASE REQUEST message towards the affected CN domain(s). The procedure may be initiated for instance when the contact with a particular UE is lost or due to user inactivity.

The IU RELEASE REQUEST message shall indicate the cause value for the requested Iu connection release. It is up to the CN to decide how to react to the request.

Interactions with Iu Release procedure:

[The Iu Release procedure should be initiated upon reception of IU RELEASE REQUEST message when the cause is different than "User Inactivity". When the cause is set to "User Inactivity", it is optional to initiate the Iu Release procedure.](#)

~~If the CN decides to release the Iu connection, the CN shall initiate the Iu Release procedure.~~

8.4.3 Abnormal Conditions

Not applicable.

3GPP TSG-RAN3 Meeting #37
Budapest, Hungary, 25th-29th August 2003

Tdoc #R3-031142

CR-Form-v7

CHANGE REQUEST

⌘ 25.413 CR 583 ⌘ rev 1 ⌘ Current version: 4.9.0 ⌘

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:	⌘ Essential Correction of Iu Release Request issue		
Source:	⌘ RAN3		
Work item code:	⌘ TEI	Date:	⌘ 25/08/2003
Category:	⌘ A	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:	⌘ The current text in RANAP leaves the full optionality to a CN node on how to react to an Iu Release Request received from the RNC whereas the correct behaviour expected by the RNC is to have the Iu released whenever the cause value set in the Iu Release Request is different than 'user inactivity'.
Summary of change:	⌘ The CN node is expected to release the Iu whenever the RNC sends an Iu Release Request for other reason than 'user inactivity'.
	<u>Impact assessment towards the previous version of the specification (same release):</u>
	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 Iu Release Request system function.
Consequences if not approved:	⌘ Desynchronisation states between UE, RNC and CN. Serious damages such as contexts pending in case of radio or transport failures in the RNC.

Clauses affected:	⌘ 8.4.2						
Other specs	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td>X</td> <td></td> </tr> </table>	Y	N	X		Other core specifications	⌘ TS 25.413 R99 CR582rev1 ⌘ TS 25.413 REL-5 CR584rev1
Y	N						
X							

affected:	<input checked="" type="checkbox"/>	Test specifications	
	<input checked="" type="checkbox"/>	O&M Specifications	
Other comments:	⌘		

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Interactions with Iu Release procedure:

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~~If the CN decides to release the Iu connection, the CN shall initiate the Iu Release procedure.~~

8.4.3 Abnormal Conditions

Not applicable.

3GPP TSG-RAN3 Meeting #37
Budapest, Hungary, 25th-29th August 2003

Tdoc #R3-031143

CR-Form-v7

CHANGE REQUEST

⌘ 25.413 CR 584 ⌘ rev 1 ⌘ Current version: 5.5.0 ⌘

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

Title:	⌘ Essential Correction of Iu Release Request issue		
Source:	⌘ RAN3		
Work item code:	⌘ TEI	Date:	⌘ 25/08/2003
Category:	⌘ A	Release:	⌘ REL-5
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)	
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Y	N						
X							

affected:	<input checked="" type="checkbox"/>	Test specifications	
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