TSG RAN Meeting #21 RP-030437

Frankfurt, Germany, 16 - 19 September 2003

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

Budapest, nunga	y, 25 -29 Augu	St 2003			
	CHA	ANGE REQ	UEST		CR-Form-v7
*	2 <mark>5.413</mark> CR	5 <mark>82</mark>	1 % Cur	rent version:	3.13.0 [*]
For <u>HELP</u> on usi	g this form, see botto	om of this page or	look at the po	p-up text over	the % symbols.
Proposed change at	fects: UICC apps₩	ME ME	Radio Acces	ss Network X	Core Network X
Title: 第	Essential Correction of	of lu Release Requ	uest issue		
Source: #	RAN3				
Work item code:₩	ΓΕΙ			Date: 第 25/	08/2003
Category: ж	= 1		Re	lease: % R9	9
	se <u>one</u> of the following of F (correction) A (corresponds to a	-		2 (GSA	ollowing releases: A Phase 2) ease 1996)
	B (addition of feature	re),	riier reiease)	R97 (Rele	ase 1997)
	C (functional modifical D) (editorial modifical calculus)				ease 1998) ease 1999)
	etailed explanations of the found in 3GPP TR 21.	the above categories	s can	Rel-4 (Rele	ease 4) ease 5)
	1100110 111 301 1 11(21)	<u>.900</u> .		•	ease 6)
Reason for change:	器 The current text	in RANAP leaves	the full option	ality to a CN r	node on how to
3	react to an Iu Re	lease Request rec	eived from th	e RNC wherea	as the correct
		ted by the RNC is understanding the Release Requestion.			
Summary of change	★ The CN node is 6	expected to releas	e the lu when	ever the RNC	sends an lu
		t for other reason t			
	Impact assessment release):	ent towards the pre	evious versior	of the specifi	cation (same
	This CR has isol (same release).	ated impact toward	ds the previou	us version of t	ne specification
	This CR has an i	mpact under funct	tional point of	view.	
	The impact can be Request system	oe considered isola functions.	ated because	it only affects	the Iu Release
Consequences if not approved:		on states between			
	, ,	, case of facile a	. danoport lai	idio ili tilo Iti	
Clauses affected:	第 8.4.2				
	YN				
Other specs	X Other core	specifications		13 REL-4 CR5 13 REL-5 CR5	
affected:	X Test specif	ications	. 0 20.1		

	X 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: lu 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

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

Title:	ж	Essential Correction of Iu Release Request issue		
Source:	Ж	RAN3		
Work item code	:₩	TEI	Date: 第	25/08/2003
Category:	Ж	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	e) 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	Rel-4	(Release 4)
		be found in 3GPP TR 21.900.	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: 第	Release Request for other reason than 'user inactivity'. 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 lu 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	Y N W Other core specifications TS 25.413 R99 CR582rev1 TS 25.413 REL-5 CR584rev1	

affected:	X Test specifications O&M Specifications	
Other comments:	*	

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- 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

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8.4.2 Successful Operation



Figure 3: lu 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 #R3-031143

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Proposed cha	inge affects:	UICC app	os #	ME	Rad	dio A	ccess Network X	Core Ne	etwork X

Title:	ж	Essential Correction of lu Release Request issue		
		•		
Source:	ж	RAN3		
Work item code	: 38	TEI	Date: #	25/08/2003
		. 	2 4101 11	
Category:	ж	A	Release: #	REL-5
		Use one of the following categories:		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)
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		Detailed explanations of the above categories can	Rel-4	(Release 4)
		be found in 3GPP <u>TR 21.900</u> .	Rel-5	(Release 5)
			Rel-6	(Release 6)

Reason for change: 第	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: 業	The CN node is expected to release the lu whenever the RNC sends an lu Release Request for other reason than 'user inactivity'. 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 lu Release
Consequences if #	
not approved:	contexts pending in case of radio or transport failures in the RNC.

Clauses affected:	₩ 8.4.2
Other specs	Y N W Other core specifications TS 25.413 R99 CR582rev1 TS 25.413 REL-4 CR583rev1

affected:	X Test specifications O&M Specifications
Other comments:	*

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