

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

RP#16(02) 0405

TSG_Doc_Num	Specification	CR_Num	Revision_Num	3G_Release	CR_Subject	CR_Category	Cur_Ver_Num	New_Ver_Num	Tdoc_Num	WorkItem
RP-020405	25.410	037		R99	Correction of TNL Release	F	5.0.0	5.1.0	R3-021191	TEI
RP-020405	25.410	038		Rel-4	Correction of TNL Release	A	5.0.0	5.1.0	R3-021192	TEI
RP-020405	25.410	039		Rel-5	Correction of TNL Release	A	5.0.0	5.1.0	R3-021193	TEI

3GPP TSG-RAN WG3 Meeting #29
 Gyeongju, Korea, 13th – May17th, 2002

R3-021191

CR-Form-v3

CHANGE REQUEST

⌘ **25.410** **CR 037** ⌘ rev **-** ⌘ Current version: **3.6.0** ⌘

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:	⌘ Correction to TNL release		
Source:	⌘ R-WG3		
Work item code:	⌘ TEI	Date:	⌘ April 2002
Category:	⌘ F	Release:	⌘ R99
Use <u>one</u> of the following categories: F (essential 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 <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)	

Reason for change: ⌘ At last RAN3#26, the initiator of the TNL release was discussed on the different interfaces. Even if originally thought as an Iub relevant CR, It was finally also agreed in CR018 on TS25424 on the Iur that the DRNC could possibly trigger the TNL release in abnormal situations even if the normal case was the trigger from the SRNC. The same situation is applicable on the Iu interface and has been agreed in RAN3#27.

Summary of change: ⌘ Correction of TNL release initiator is made in alignment with Iub/Iur.

Impact assessment towards the previous version of the specification (same release):
 This CR has isolated impact with the previous version of the specification (same release) since the CN may with this correction initiate the Iu bearer release in some not normal cases.

This CR has an impact under functional point of view for implementations not behaving like indicated in the CR.
 The impact can be considered isolated because the change affects only the system function TNL release.

Consequences if not approved: ⌘ The CN cannot initiate the Iu bearer release when needed and the RNC may not respond to a TNL release request when needed.

Clauses affected: ⌘ 5.4.3

Other specs affected: ⌘ Other core specifications ⌘ TS25410 CR038 REL-4
 Test specifications ⌘ TS25410 CR039 REL-5
 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/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://www.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.

5.4 I_u link Management functions

5.4.1 I_u Signalling Link Management function

The I_u signalling link management function provides a reliable transfer of the radio network signalling between UTRAN and CN. Both CN and UTRAN manage the function.

This function is in particular responsible for I_u signalling connection establishment, which can be established either by the CN or the RNC and for I_u signalling connection release, which is controlled by CN possibly upon UTRAN request.

5.4.2 ATM Virtual Connection Management function

This function refers to handling of ATM Virtual Connections (VCs) between CN and UTRAN.

This function shall be used to establish, maintain and release the ATM VCs. For permanent VCs, it is regarded to be an O&M function.

This function also includes the selection of a Virtual Circuit to be used for a particular RAB. The selection of ATM VC upon an I_u radio access bearer service request, shall be done by UTRAN. The selected VC shall fulfil the requirements of the request. The VC may consist of several sublinks: such as SCCP connections, AAL2 connections or IP flows.

5.4.3 AAL2 connection establish and release function

This function is used to establish and release the AAL type 2 connections between CN and UTRAN upon an I_u radio access bearer service request. Both UTRAN and CN are taking part in the establishment of AAL2 connection. UTRAN shall initiate both establishment and release of AAL2 connections. In abnormal cases, the CN may also initiate release of AAL2 connections. The use of AAL2 for I_u transmission bearers depends on type of CN.

3GPP TSG-RAN WG3 Meeting #29
 Gyeongju, Korea, 13th – May17th, 2002

R3-021192

CR-Form-v3

CHANGE REQUEST

⌘ **25.410** **CR 038** ⌘ rev **-** ⌘ Current version: **4.3.0** ⌘

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:	⌘ Correction to TNL release		
Source:	⌘ R-WG3		
Work item code:	⌘ TEI	Date:	⌘ April 2002
Category:	⌘ A	Release:	⌘ REL-4

Use one of the following categories:

- F** (essential 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:	⌘ At last RAN3#26, the initiator of the TNL release was discussed on the different interfaces. Even if originally thought as an Iub relevant CR, It was finally also agreed in CR018 on TS25424 on the Iur that the DRNC could possibly trigger the TNL release in abnormal situations even if the normal case was the trigger from the SRNC. The same situation is applicable on the Iu interface and has been agreed in RAN3#27.
Summary of change:	⌘ Correction of TNL release initiator is made in alignment with Iub/Iur.
	<p><u>Impact assessment towards the previous version of the specification (same release):</u> This CR has isolated impact with the previous version of the specification (same release) since the CN may with this correction initiate the Iu bearer release in some not normal cases.</p> <p>This CR has an impact under functional point of view for implementations not behaving like indicated in the CR. The impact can be considered isolated because the change affects only the system function TNL release.</p>
Consequences if not approved:	⌘ The CN cannot initiate the Iu bearer release when needed and the RNC may not respond to a TNL release request when needed.

Clauses affected:	⌘ 5.4.3	
Other specs affected:	⌘ <input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘ TS25410 CR037 R99 TS25410 CR039 REL-5

Other comments: ☞

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5.4.2 ATM Virtual Connection Management function

This function refers to handling of ATM Virtual Connections (VCs) between CN and UTRAN.

This function shall be used to establish, maintain and release the ATM VCs. For permanent VCs, it is regarded to be an O&M function.

This function also includes the selection of a Virtual Circuit to be used for a particular RAB. The selection of ATM VC upon an I_u radio access bearer service request, shall be done by UTRAN. The selected VC shall fulfil the requirements of the request. The VC may consist of several sublinks: such as SCCP connections, AAL2 connections or IP flows.

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3GPP TSG-RAN WG3 Meeting #29
 Gyeongju, Korea, 13th – May17th, 2002

R3-021193

CR-Form-v3

CHANGE REQUEST

⌘ **25.410** **CR 039** ⌘ 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:	⌘ Correction to TNL release		
Source:	⌘ R-WG3		
Work item code:	⌘ TEI	Date:	⌘ April 2002
Category:	⌘ A	Release:	⌘ REL-5

<p><i>Use <u>one</u> of the following categories:</i></p> <p>F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>	<p><i>Use <u>one</u> of the following releases:</i></p> <p>2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)</p>
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Clauses affected:	⌘ 5.4.3						
Other specs affected:	<table style="width: 100%;"> <tr> <td style="width: 50%;"><input checked="" type="checkbox"/> Other core specifications</td> <td>⌘ TS25410 CR037 R99</td> </tr> <tr> <td><input type="checkbox"/> Test specifications</td> <td>⌘ TS25410 CR038 REL-4</td> </tr> <tr> <td><input type="checkbox"/> O&M Specifications</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> Other core specifications	⌘ TS25410 CR037 R99	<input type="checkbox"/> Test specifications	⌘ TS25410 CR038 REL-4	<input type="checkbox"/> O&M Specifications	
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