

**3GPP TSG-RAN meeting #5
Kyongju, Korea, 6-8 October 1999**

RP-99516

Title: Approved Change Requests on TS 25.432
Agenda item: 6.4.3

TDOC	STATUS	SPEC	CR	REV	SUBJECT	CAT	CURRENT	NEW
R3-99c74	approved	25.432	001		Iub NBAP Signalling Bearer	F	3.0.0	3.1.0
R3-99d09	approved	25.432	002		ATM switching layer	B	3.0.0	3.1.0

3GPP TSG-RAN-WG3 meeting #7
Sophia Antipolis, France, Sept. 20-24, 1999

Document **R3-99C74**

3G CHANGE REQUEST

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

25.432 CR 001

Current Version: **3.0.0**

3G specification number ↑

↑ CR number as allocated by 3G support team

For submission to TSG for approval (only one box should be marked with an X)
list TSG meeting no. here ↑ for information

Form: 3G CR cover sheet, version 1.0 The latest version of this form is available from: [ftp://ftp.3gpp.org/Information/3GCRF-xx.rtf](http://ftp.3gpp.org/Information/3GCRF-xx.rtf)

Proposed change affects: USIM ME UTRAN Core Network
(at least one should be marked with an X)

Source: Ericsson **Date:** Sept. 20-24, 1999

Subject: Iub NBAP Signalling Bearer

3G Work item:

Category: F Correction
(only one category shall be marked with an X) A Corresponds to a correction in a 2G specification
B Addition of feature
C Functional modification of feature
D Editorial modification

Reason for change: This CR proposes to remove the current text indicating that SAAL-UNI is a working assumption as a signalling bearer for NBAP, i.e. SAAL-UNI shall be used as signalling bearer for NBAP. For modification of relevant text see section 4.2 of 25.432 v.3.0.0 attached to this CR.

Clauses affected:

Other specs affected: Other 3G core specifications → List of CRs:
Other 2G 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:

4 NBAP Signalling Bearer

4.1 Introduction

The Signalling Bearer for NBAP is a point-to-point protocol. There may be multiple point-to-point links between an RNC and a NodeB.

4.2 Signalling Bearer

~~It is a working assumption that the~~ [The](#) signalling bearer in the Radio Network Control Plane is SAAL-UNI [1] over ATM. The figure below shows the protocols to be used to support NBAP signalling. ~~based on this working assumption.~~ These are SSCF-UNI [2] on top of SSCOP [3] and AAL Type 5 [4]. Only SSCOP assured data transfer service shall be used.

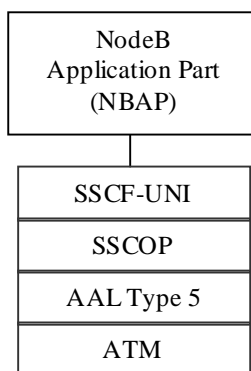


Figure 1: Iub NBAP Signalling Transport

3G CHANGE REQUEST

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

25.432 CR 002

Current Version: **3.0.0**

3G specification number ↑

↑ CR number as allocated by 3G support team

For submission to TSG
list TSG meeting no. here ↑

for approval (only one box should
for information be marked with an X)

Form: 3G CR cover sheet, version 1.0 The latest version of this form is available from: ftp://ftp.3gpp.org/Information/3GCRF-xx.rtf

Proposed change affects:
(at least one should be marked with an X)

USIM

ME

UTRAN

Core Network

Source: Motorola

Date: Sept 20-24,
1999

Subject: ATM switching layer

3G Work item:

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

F Correction	<input type="checkbox"/>
A Corresponds to a correction in a 2G specification	<input type="checkbox"/>
B Addition of feature	<input checked="" type="checkbox"/>
C Functional modification of feature	<input type="checkbox"/>
D Editorial modification	<input type="checkbox"/>

Reason for change: For multivendor operability it is required to specify the mechanism by which redundancy of pathways between RNC and Node B will be accomplished when redundancy is supported.

Clauses affected:

Other specs affected:

Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	<input type="text"/>
Other 2G core specifications	<input type="checkbox"/>	→ List of CRs:	<input type="text"/>
MS test specifications	<input type="checkbox"/>	→ List of CRs:	<input type="text"/>
BSS test specifications	<input type="checkbox"/>	→ List of CRs:	<input type="text"/>
O&M specifications	<input type="checkbox"/>	→ List of CRs:	<input type="text"/>

Other comments:



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

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1] ITU-T Recommendation Q.2100 (07/94). “B-ISDN signalling ATM adaptation layer (SAAL) overview description”.

[2] ITU-T Recommendation Q.2130 (07/94). “B-ISDN signalling ATM adaptation layer – Service specific coordination function for support of signalling at the user network interface (SSCF–UNI)”.

[3] ITU-T Recommendation Q.2110 (07/94). “B-ISDN ATM adaptation layer – Service specific connection oriented protocol (SSCOP)”.

[4] ITU-T Recommendation I.363.5 (08/96). “B-ISDN ATM Adaptation Layer Type 5 Specification”.

[5] [ITU-T Recommendation I.361 B-ISDN ATM Layer Specification \(11/95\)](#)

[6] [ITU-T Rec. I.630 \(2/99\) ATM Protection Switching](#)

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the [following] terms and definitions [given in ... and the following] apply.

3.2 Symbols

For the purposes of the present document, the following symbols apply:

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AAL	ATM Adaptation Layer
ATM	Asynchronous Transfer Mode
NBAP	NodeB Application Part
RNC	Radio Network Controller
SAAL	Signalling ATM Adaptation Layer
SSCF	Service Specific Coordination Function
SSCOP	Service Specific Connection Oriented Protocol
UNI	User-Network Interface

4 [ATM Layer](#)

4.1 [General](#)

[ATM shall be used in the radio network control plane according to I.361 \[5\]](#)

4.2 [Protection Switching at ATM Layer](#)

[If redundancy of pathways at ATM layer between RNC and Node B is supported, it shall be implemented using ATM Protection Switching according to I.630 \[6\].](#)

4 NBAP Signalling Bearer

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4.2 Signalling Bearer

It is a working assumption that the signalling bearer in the Radio Network Control Plane is SAAL-UNI [1] over ATM. The figure below shows the protocols to be used to support NBAP signalling based on this working assumption. These are SSCF-UNI [2] on top of SSCOP [3] and AAL Type 5 [4].