3GPP TSG-RAN-WG3 meeting #6
Sophia Antipolis, France, Aug. 24-27, 1999

Document R3-99921

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** 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 [X] for information [ ] *(only one box should 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 [X] Core Network [ ]

Source: TSG-RAN WG3 **Date:** Aug. 24-27, 1999

Subject: Iub NBAP Signalling Bearer

3G Work item:

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

F	Correction	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: NBAP assumes the availability/usage of a reliable signalling bearer. This CR proposes that 25.432 should state explicitly that only the SSCOP assured data transfer services shall be used. The proposed statement has been included in 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:

TS 25.432 V3.0.0 (1999-06)

Technical Specification

3rd Generation Partnership Project (3GPP); Technical Specification Group (TSG) RAN;

UTRAN I_{ub} Interface: Signalling Transport

Reference
<Workitem> (<Shortfilename>.PDF)

Keywords
<keyword[, keyword]>

3GPP

Postal address

Office address

Internet
secretariat@3gpp.org

Contents

Intellectual Property Rights

Foreword

This Technical Specification has been produced by the 3GPP.

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of this TS, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version 3.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 Indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the specification.

1 Scope

The present document specifies the signalling transport related to NBAP signalling to be used across the Iub Interface. The Iub interface is a logical interface for the interconnection of NodeB and Radio Network Controller (RNC) components of the UMTS Terrestrial Radio Access Network (UTRAN) for the UMTS system. The radio network control signalling between these nodes is based on the NodeB application part (NBAP).

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”.

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 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 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.

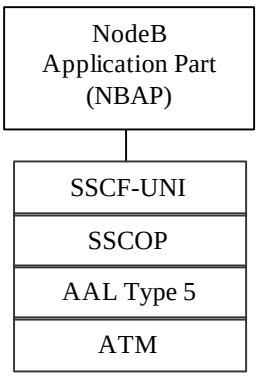

Figure 1: Iub NBAP Signalling Transport

History

Document history		
V0.0.1	1999-02	Initial Specification Structure
V0.0.2	1999-02	Inclusion of complete text from section 9.3 of the baseline specification entitled "Merged Description of Iub Interface, Version 0.0.2"
V0.0.3	1999-03	Renaming of subsections in line with Specifications S3.12 and 3.22. Addition of new section "Example Sequences" in line with S3.12 and 3.22
V0.1.0	1999-04	Approved by TSG RAN WG3
V1.0.0	1999-04	Noted at TSG RAN, Yokohama
V1.0.1	1999-04	Scope, References and figure for Protocol stack added plus editorial changes.
V2.0.0	1999-04	Approved at TSG RAN WG3, Kawasaki
V3.0.0	1999-04	Approved by TSG-RAN by correspondence
Editor for 3GPP RAN TS 25.432 is:		
Mick Wilson Fujtsu Europe Telecom R&D Centre Tel.: +44 181 606 4801 Fax : +44 181 573 3602 Email : m.wilson@fujitsu.co.uk		
This document is written in Microsoft Word version 7/97.		