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

RP-99519

Title: Approved Change Requests on TS 25.434
Agenda item: 6.4.3

TDOC	STATUS	SPEC	CR	REV	SUBJECT	CAT	CURRENT	NEW
R3-99a34	approved	25.434	001		Mapping of binding id	D	3.0.0	3.1.0
R3-99d08	approved	25.434	002		ATM switching layer	B	3.0.0	3.1.0

3GPP TSG-RAN-WG3 meeting #6 *Document* ***R3-99A34***

Sophia Anitpolis, France, August 23-27, 1999 *Agenda Item : 22*

3G CHANGE REQUEST

25.434 **CR** **001** Current Version: 3.0.1

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: Mitsubishi **Date:** Aug 23-27, 1999

Subject: Mapping of binding id

3G Work item:

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

F	Correction	
A	Corresponds to a correction in a 2G specification	
B	Addition of feature	
C	Functional modification of feature	
D	Editorial modification	X

Reason for change: Precise how to map binding Identifier within the current transport network (when using AAL2)

Clauses affected:

Other specs affected:

Other 3G core specifications	X	→ List of CRs:	25.414, 25.424, 25.426
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:

6 Signalling Bearer for Transport Signalling on I_{ub} Interface

6.1 Introduction

This chapter specifies the signalling bearer protocol stack which supports the transport signalling protocol.

6.2 Signalling Bearer

SAAL-UNI is the standard signalling bearer for the AAL Type Signalling protocol (Q.2630.1) on Iub [4,5]. The protocol stack is shown in Figure 2 below.

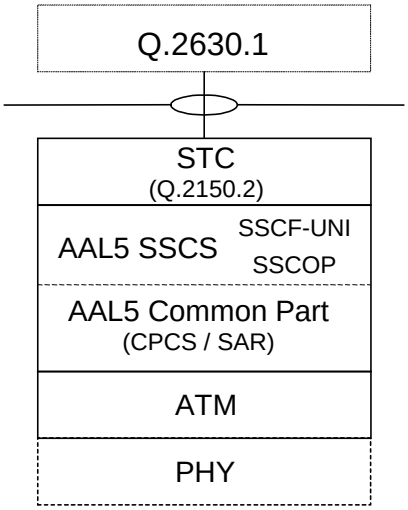

Figure 2: Transport Network Control plane protocol structure on Iub.

Binding ID provided by the radio network layer shall be copied in SUGR parameter of ESTABLISH.request primitive of [3].

A signalling transport converter (STC) is shown in the protocol stack, since Q.2630.1 does not include this. The converter relevant for Iub is Q.2150.2 [6]. The AAL5 Common Part contains CPCS and SAR.

3GPP TSG-RAN-WG3 meeting #7

Sophia Antipolis, France, September 20-24, 1999

Document* *R399D08

3G CHANGE REQUEST

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

25.434 **CR** **002** Current Version: 3.0.0

3G specification number ↑ *↑ CR number as allocated by 3G support team*

For submision 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: 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	[ ]
A	Corresponds to a correction in a 2G specification	[ ]
B	Addition of feature	[X]
C	Functional modification of feature	[ ]
D	Editorial modification	[ ]

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	[ ]	→ 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:

help.doc

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

2 References

References may be made to:

a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply;

b) all versions up to and including the identified version (identified by "up to and including" before the version identity);

c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or

d) publications without mention of a specific version, in which case 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 I363.2 B-ISDN ATM Adaptation Layer type 2 (9/97).
[2] ITU-T Recommendation I366.1 Segmentation and Reassembly Service Specific Convergence Sublayer for the AAL type 2 (6/98).
[3] Draft New ITU-T Recommendation Q.2630.1 AAL Type 2 signalling protocol (Capability Set 1).
[4] ITU-T Recommendation Q.2110 B-ISDN ATM Adaptation layer – Service Specific Connection Oriented Protocol (SSCOP) (7/94).
[5] ITU-T Recommendation Q.2130 B-ISDN Signaling ATM Adaptation Layer – Service Specific Coordination Function for Support of Signaling at the User Network Interface (SSCF at UNI) (7/94).
[6] Draft New ITU-T Recommendation Q.2150.2 AAL Type 2 Signalling Transport Converter on SSCOP.

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

[8] ITU-T Rec. **I.630** (2/99) ATM Protection Switching

3 Definitions, symbols and abbreviations

3.1 Definitions

3.2 Symbols

3.3 Abbreviations

AAL	ATM Adaption Layer
AAL2	AAL Type 2
ATM	Asynchronous Transfer Mode
CPS	Common Part Sublayer
CPCS	Common Part Convergence Sublayer
DSCH	Downlink Shared Channel

FACH	Forward Access Channel
FP	Frame Protocol
RACH	Random Access Channel
RNC	Radio Network Controller
SAAL	Signalling ATM Adaption Layer
SAR	Segmentation and Reassembly
SSCOP	Service Specific Connection Oriented Protocol
SSCF	Service Specific Co-ordination Function
SSCS	Service Specific Convergence Sublayer
SSSAR	Service Specific Segmentation and Reassembly
UMTS	Universal Mobile Telecommunication Network
UNI	User-Network Interface
STC	Signalling Transport Converter
UTRAN	UMTS Terrestrial Radio Access Network

4 ATM Layer

4.1 General

ATM shall be used in the transport network user plane and the transport network control plane according to I.361[7].

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 [8].

4 I_{ub} Data Transport for Common Transport Channel Data Streams

4.1 Introduction

This chapter specifies the transport layers that support Common Transport Channels (FACH, RACH, DSCH) data streams.

4.2 Transport Layer

ATM and AAL2 (I363.2 [1] and I366.1 [2]) is used at the standard transport layer for Iub RACH, FACH, and DSCH data streams.