3GPP TSG-RAN-WG3 meeting #6 *Document* ***R3-99A33***

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

3G CHANGE REQUEST

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

Subject:

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, 25.434, 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:

1 Intellectual Property Rights

[IPRs essential or potentially essential to the present deliverable may have been declared to ETSI/3GPP. The information pertaining to these essential IPRs, if any, is publicly available for ETSI members and non-members, free of charge. This can be found in the latest version of the ETSI Technical Report: ETR 314: "Intellectual Property Rights (IPRs); Essential or potentially Essential, IPRs notified to ETSI in respect of ETSI standards". The most recent update of ETR 314, is available on the ETSI web server or on request from the Secretariat.
Pursuant to the ETSI Interim IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in the ETR 314, which are, or may be, or may become, essential to the present document.]
Note: The content has to be reviewed according to the 3GPP IPR rules

2 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.

3 Scope

4 This document shall provide a specification of the UTRAN RNC-RNC (Iur) interface Data Transport and Transport Signalling for Common Transport Channel data streams. 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 I.361 B-ISDN ATM Layer Specification (11/95)
[2] ITU-T Recommendation I.363.2 B-ISDN ATM Adaptation Layer type 2 (9/97)
[3] ITU-T Recommendation I.366.1 Segmentation and Re-assembly Service Specific Convergence Sublayer for the AAL type 2 (6/98)
[4] Draft new ITU-T Recommendation Q.2630.1 AAL Type 2 signalling protocol (Capability Set 1)
[5] ITU-T Recommendation E.191 B-ISDN numbering and addressing (10/96)

[6] 3GPP TS 25.426 UTRAN I_{ur} and I_{ub} Interface Data Transport & Transport Signalling for DCH Data Streams V2.0.0

5 Definitions, symbols and abbreviations

5.1 Definitions

Common Transport Channels are defined as transport channels that are shared by several users i.e. RACH, FACH and DSCH.

5.2 Symbols

5.3 Abbreviations

AAL2	ATM Adaptation Layer type 2
AESA	ATM End System Address
ALCAP	Access Link Control Application Part
ATM	Asynchronous Transfer Mode
CPS	Common Part Sublayer
DSCH	Downlink Shared Channel
FACH	Forward Access Channel
MTP	Message Transfer Part
NNI	Network-Node Interface
NSAP	Network Service Access Point
RACH	Random Access Channel
SAAL	Signalling ATM Adaptation Layer
SSCOP	Service Specific Connection Oriented Protocol
SSCF	Service Specific Co-ordination Function
SSCS	Service Specific Convergence Sublayer
SSSAR	Service Specific Segmentation and Re-assembly sublayer
STC	Signalling Transport Converter
UNI	User-Network Interface

6 I_{ur} Data Transport for Common Transport Channel Data Streams

6.1 Introduction

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

6.2 Transport Layer

ATM [1], AAL type 2 (I363.2 [2] and I366.1 [3]) is used as the standard transport layer for RACH, FACH and DSCH Iur data streams.
These AAL2 connections are established via the transport signalling protocol described in chapter 5.

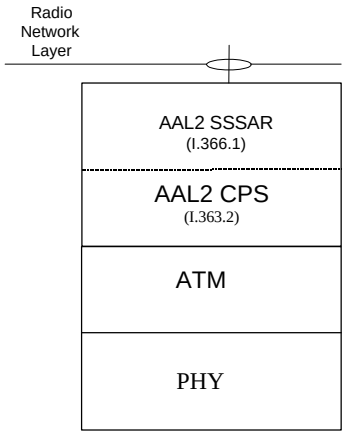

Figure 1: Protocol stack for RACH, FACH and DSCH data transport on Iur

Figure 1 shows the protocol stack for the transport of RACH, FACH and DSCH Iur data streams. Service Specific Segmentation and Re-assembly (SSSAR) is used for the segmentation and re-assembly of AAL2 SDUs (i.e. SSSAR is only considered from I366.1).

7 I_{ur} Transport Signalling for Common Transport Channel Data Streams

7.1 Introduction

This chapter specifies the transport signalling protocol(s) used to establish the user plane transport bearers. The protocol stack is shown in chapter 6 (Figure 2).

7.2 Transport Signalling

AAL2 signalling protocol Capability Set 1 Q.2630.1 [4] is the signalling protocol to control the AAL2 connections on Iur interfaces. AAL2 transport layer addressing is based on embedded E.164 or AESA variants of the NSAP addressing format [5]. Native E.164 addressing shall not be used.
Binding ID shall be copied in SUGR parameter of ESTABLISH.request primitive of [4]

8 Signalling Bearer for Transport Signalling on I_{ur} Interface

The signalling bearer for the ALCAP on the Iur interface for common transport channels data streams is the same as the signalling bearer for the ALCAP on the Iur interface for DCH data streams, defined in [6].

9 History

Document history		
0.0.1	February 1999	Document structure proposal
0.0.2	February 1999	Introduction of the related content of Merged description of Iur interface.
0.0.3	March 1999	Revision bars removed. Modifications of the title. Replacement of CCH by "Common Transport Channel".
0.0.4	April 1999	Removal of temporary reference to merged Iur specification.
0.1.0	April 1999	Removal of revision bars
0.1.1	April 1999	Changes after the 1st review in TSG RAN WG3 #3 meeting.
2.0.0	April 1999	Removal of the section "Introduction". Update of references. Update of abbreviations. Section 4.2: Removal of the sentence related to multiplexing of MAC-d PDUs; this sentence is moved to another specification. Semi-permanent is deleted. Section 6 only makes reference to 25.426. The text is removed.
3.0.0	June 1999	Approved by TSG-RAN by correspondence

Editor for 3GPP RAN 25.424 is:

Nicolas Drevon
Alcatel

Tel.: +33 1 3077 0916
Fax : +33 1 3077 9430
Email : nicolas.drevon@alcatel.fr

This document is written in Microsoft Word version 7/97.