Agenda Item:

Source:　　　WG3

Title:　　　S3.26: I_{ur} and I_{ub} Interface Data Transport & Transport Signalling for DCH Data Streams, V 0.1.0

Document for:

3GPP

TS RAN S3.26 V0.1.0 (1999-04)

Technical Specification

**3rd Generation Partnership Project (3GPP);
Technical Specification Group (TSG) RAN;
I_{ur} and I_{ub} Interface Data Transport &
Transport Signalling for DCH Data
Streams**

3GPP

Reference
<Workitem> (<Shortfilename>.PDF)

Keywords
<keyword[, keyword]>

3GPP

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Contents

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Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project, Technical Specification Group RAN.

The contents of this TS may be subject to continuing work within the 3GPP and may change following formal TSG approval. Should the TSG modify the contents of this TS, it will be re-released with an identifying change of release date and an increase in version number as follows:

Version m.t.e

where:

m indicates [major version number]

x the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

y the third digit is incremented when editorial only changes have been incorporated into the specification.

Introduction

This clause is optional. If it exists, it is always the third unnumbered clause.

No text block identified.

1 Scope

2 References

[ ] Draft new ITU-T Recommendation Q.2630.1 AAL Type 2 Signalling protocol (Capability Set 1)

[2] Draft new ITU-T Recommendation Q.2150.2 AAL Type 2 Signalling Transport Converter on SSCOP

[3] Draft new ITU-T Recommendation Q.2150.1 AAL Type 2 Signalling transport Converter on MTP-3B

3 Definitions, symbols and abbreviations

3.1 Definitions

3.2 Symbols

3.3 Abbreviations

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

AAL	ATM Adaptation Layer
ATM	Asynchronous Transfer Mode
DCH	Dedicated Channel
MTP	Message Transfer Part
NNI	Network-Node Interface
SAAL	Signalling ATM Adaptation Layer
SSCOP	Service Specific Connection Oriented Protocol
STC	Signalling Transport Converter
UNI	User-Network Interface

4 I$_{ur}$ and I$_{ub}$ Data Transport for DCH Data Streams

4.1 Introduction

4.2 Transport Layer

Iub / Iur DCH data stream for soft handover [FDD]:

ATM and AAL2 are used as a standard transport layer for DCH data streams across the Iur and Iub interfaces.

Iub / Iur DCH data stream for soft handover [TDD]:

FFS

5 Transport Signalling Application for DCH Data Streams

5.1 Introduction

[Editor´s note: This chapter should describe general requirements and structure of the Transport Network Control Plane.]

5.2 ALCAP

Working assumption: Q.2630.1 [1] is the standard AAL2 signalling protocol for Iub and for Iur.

6 Signalling Bearer for Transport Signalling on I$_{ub}$ Interface

6.1 Introduction

6.2 Signalling Bearer

Working assumption: SAAL-UNI is the standard signalling bearer for the AAL Type 2 Signalling protocol [1] on Iub.
Signalling Transport Converter for SSCOP is applied [2].
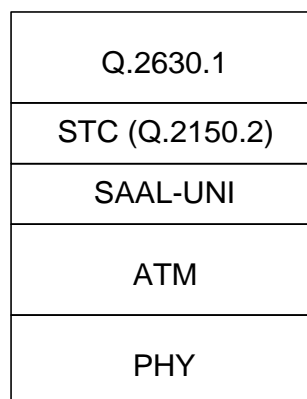
Transport Network control plane

| Q.2630.1 |
| STC (Q.2150.2) |
| SAAL-UNI |
| ATM |
| PHY |

Figure 1: Transport Network Control plane protocol structure on Iub.

7 Signalling Bearer for Transport Signalling on I$_{ur}$ Interface

7.1 Introduction

7.2 Signalling Bearer

MTP3/SAAL-NNI is used as Signalling Bearer for Q.2630 as shown in the figure below. Signalling Transport Converter for MTP-3B is applied [3].
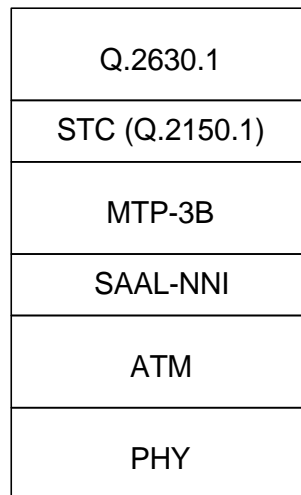
Transport Network control plane

Q.2630.1
STC (Q.2150.1)
MTP-3B
SAAL-NNI
ATM
PHY

Figure2: Signalling bearer for Q.aal2 on Iur.

8   Bibliography

9 History

Document history		
Edition x	<MMMM yyyy>	Publication as <old doctype> <old docnumber>
0.0.1	February 1999	First draft (skeleton)
0.0.2	March 1999	Relevant contents from the Merged Interface Descriptions of Iur and Iub, v0.0.2, incorporated.
0.0.3	March 1999	Changes after TSG RAN WG3 #2 meeting; no changes
0.0.4	April 1999	TNCP stacks revised, STC added. AAL5 and other otions (FFS) removed.
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This document is written in Microsoft Word version 7/97.		