# 3G TR 25.934 V0.2.0 (2000-09)

Technical Report

3rd Generation Partnership Project; Technical Specification Group Radio Access Network; QoS optimization for AAL type 2 connections over lub and lur interfaces (Release 2000)



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Postal address

3GPP support office address

650 Route des Lucioles - Sophia Antipolis Valbonne - FRANCE Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Internet

http://www.3gpp.org

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## Foreword

This Technical Report has been produced by the 3<sup>rd</sup> Generation Partnership Project (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 the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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Version x.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater 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 document.

# Introduction

The present document is to proceed the Release 2000 work task "QoS optimization of AAL type 2 connections over Iub and Iur interfaces".

## 1 Scope

The present document clarifies:

- the issue to be improved under the work task,
- requirements for the solution from UTRAN transport network configuration point of view,
- solution to solve the issue,
- backward compatibility mechanism between Release 2000 and Release 99 specifications for the solution, and
- what Change request is needed to reflect the solution to enhance Release 99 specifications to Release 2000 specifications.

## 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.
- [1] ITU-T Recommendation I.356 (2000): "B-ISDN ATM layer cell transfer performance".
- [2] ITU-T Recommendation I.363.2 (09/97): "B-ISDN ATM adaptation layer type 2 specification".
- [3] Draft Revised ITU-T Recommendation I.363.2 (03/2000): "B-ISDN ATM adaptation layer type 2 specification".
- [4] ITU-T Recommendation I.366.1 (06/98): "B-ISDN ATM adaptation layer type 2 specification".
- [5] ITU-T Recommendation Q.2630.1 (1999): "AAL type 2 signalling protocol (Capability set 1)".
- [6] Draft ITU-T Recommendation Q.2630.2 (07/2000): "AAL type 2 signalling protocol (Capability set 2)".
- [7] ITU-T Technical Report TRQ.2400 (1999): "Signalling requirements for AAL type 2 link control capability set 1".
- [8] 3G TS 23.107: "QoS concept and architecture".
- [9] 3G TS 25.413: "UTRAN Iu interface RANAP signalling".
- [10] 3G TS 25.423: "UTRAN Iur interface RNSAP signalling".
- [11] 3G TS 25.433: "UTRAN lub interface NBAP signalling".

# 3 Definitions, symbols and abbreviations

#### 3.1 Definitions

No specific definition is made in this document.

### 3.2 Symbols

No specific symbol is defined in this document.

#### 3.3 Abbreviations

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

AAL	ATM Adaptation Layer
AAL2	ATM Adaptation Layer type 2
ALCAP	Access Link Control Application Part
ATM	Asynchronous Transfer Mode
CDV	Cell delay variation
CFN	Connection Frame Number
CN	Core Network
CPS	Common Part Sublayer
CRNC	Controlling RNC
CS	Capability Set
CS	Circuit Switched
CTD	Cell transfer delay
DCH	Dedicated Channel
DRNC	Drift RNC
GPRS	General Packet Radio Service
GTP-U	GPRS Tunnelling Protocol User plane
IE	Information Element
MAC-d	Medium Access Control for DCH
MSC	Mobile Switching Center
NBAP	Node B Application Part
QoS	Quality of Service
RAB	Radio Access Bearer
RANAP	Radio Access Network Application Part
RNC	Radio Network Controller
RNSAP	Radio Network Subsystem Application Part
SAP	Service Access Point
SDU	Service Data Unit
SGSN	Serving GPRS Support Node
SRNC	Serving RNC
SSCS	Service Specific Convergence Sublayer
SSSAR	Service Specific Segmentation and Reassembly Sublayer
SW	Switch
TTI	Time Transmission Interval
UMTS	Universal Mobile Telecommunication System
UTRAN	UMTS Terrestrial Radio Access Network
VC	Virtual Connection

# 4 Issue to be improved

# 4.1 Priority capability in Release 99

Transmission resource inside the UTRAN should be optimised. Decreasing the ATM required bandwidth for the same net bit rate could allow an operator to decrease its transmission and operating cost.

In network configurations using AAL type 2 switches, no priority is handled at AAL type 2 or ATM level in Release 99, and all AAL type 2 channels shall be transported with the most stringent transfer delay (transfer delay of real time services). The required instantaneous bit rate on the Iub and Iur interfaces will be higher than in case AAL type 2 or ATM level priority is supported.

In network configurations not using AAL type 2 switches, and where the implementation of  $I.363.2^{[2]}$  or  $Q.2630.1^{[5]}$  provides the capability, priority may be handled without affecting the signalling messages and message sequences of NBAP<sup>[11]</sup>, RNSAP<sup>[10]</sup>, and RANAP<sup>[9]</sup>, or  $Q.2630.1^{[5]}$ .

### 4.1.1 Prioritization at AAL type 2 level

At a node, QoS at the AAL type 2 layer may be realized with possible proprietary implementation of  $I.363.2^{[2]}$ , though there exists no standardized means to provide QoS at the AAL type 2 level in  $I.363.2^{[2]}$ . NBAP<sup>[11]</sup>, RNSAP<sup>[10]</sup>, and RANAP<sup>[9]</sup> may give the requested QoS to the node. No indication of the requested QoS is given at an intermediate AAL type 2 switch.

# 4.1.1.1 I.363.2<sup>[2]</sup>

Protocol stack for user plane is, from the top, SSSAR of I.366.1<sup>[4]</sup>/I.363.2<sup>[2]</sup>/ATM layer/Physical layer and is common for Iub/Iur interfaces Common Transport Channel and DCH data streams, and Iu interface CS domain data stream.

QoS is provided by the ATM layer and there exists no standardized means to provide QoS at the AAL type 2 layer in  $I.363.2^{[2][3]}$ .

Following is extract of determined Revised I.363.2  $(03/2000)^{[3]}$  which has clear description (italic+bold sentence) on the point though I.363.2  $(09/97)^{[2]}$  does not mention about the study status on the point.

Note: AAL layer in Figure 3/I.363.2<sup>[3]</sup> in the extract consists of upper sublayer SSCS (SSSAR) and lower sublayer SSCS (CPS).

----- Start of extract (1/2) ------

#### 6. General framework of AAL type 2

#### 6.1 Structure of AAL type 2

The AAL type 2 users have the capability to select a given AAL-SAP associated with the QOS (for example, delay and loss sensitivity) required to transport that AAL-SDU (see Figure 3). The AAL type 2 makes use of the service provided by the underlying ATM layer. Multiple AAL connections may be associated with a single ATM layer connection, allowing multiplexing at the AAL; multiplexing in the AAL type 2 occurs in the Common Part Sublayer (CPS). The AAL user selects the QOS provided by the AAL through the choice of the AAL-SAP used for data transfer. *In this version of the Recommendation, Quality Of Service (QoSx in Figure 3) is provided by the ATM layer and there exists no standardized means to provide QoS at the AAL type 2 layer.* 



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NOTE – How QOS at the AAL-SAP is mapped into the ATM-SAP QOS in the event of multiplexing in the AAL is for further study.

Figure 3/I.363.2 - Relation between AAL-SAP and ATM-SAP

----- End of extract (1/2) ------Start of extract (2/2) ------

#### 10. Procedure of AAL type 2 Common Part Sublayer (CPS)

The multiplexing function in the Common Part Sublayer merges several streams of CPS-Packets onto a single ATM connection. The method of scheduling the different streams and the possible use of priorities is not specified in this Recommendation.

----- End of extract (2/2) ------

## 4.1.2 Prioritization at ATM level

In network configurations not using AAL type 2 switches, and where the implementation of  $Q.2630.1^{[5]}$  provides the capability, priority at the ATM layer may be handled without affecting the signalling messages and message sequences of  $Q.2630.1^{[5]}$ .

# 4.1.2.1 Q.2630.1<sup>[5]</sup>

 $Q.2630.1^{[5]}$  is applied as ALCAP to establish/release an AAL type 2 connection over Iub, Iur, and Iu (CS domain) interfaces in Release 99. TRQ.2400<sup>[7]</sup> does not require  $Q.2630.1^{[5]}$  a capability to select a succeeding AAL type 2 path according to the requested QoS for the AAL type 2 path. TRQ.2400<sup>[7]</sup> is common for both the main body (superset) and ANNEX A "Support for non-switched scenario" (subset of the main body). Thus Q.2630.1<sup>[5]</sup> has no explicit definition to treat the capability.

In ANNEX A, the routing function is located in the AAL type 2 served user where the definition of it is out of scope of  $Q.2630.1^{[5]}$ . This implies that the capability to select the succeeding AAL type 2 path according to the requested QoS for the AAL type 2 path may be provided by the AAL type 2 served user in its implementation. ANNEX A is applicable in case of no AAL type 2 switch.

#### 4.2 Required instantaneous bit rate

Figure 1 shows that example possible Release 99 scheduling (with no QoS optimization at transmission) has a capability to spread out load over Iub and load in a cell.

Note that in this Figure 1:

- Blocks show downlink data frames dedicated to two DCHs,

- Shorter data frames are for real time (stringent real time) traffic, and longer ones are for non-real time (tolerant real time) traffic,

- Downlink data frames are scheduled by MAC-d s in a SRNC respectively,
- CFN values of the two connections at a time are aligned to ease the explanation.

However, collision of the scheduling can occur in following cases and it results in possible delay or thicker Iub transmission:

- Node B consists of multiple cells and Iub transmission is common for them, or

- Down link data frames for drift branch of diversity handover scheduled by MAC-d s in other SRNC present in the same Iub transmission, etc..

By nature, required instantaneous bit rate for Iub transmission is twice of Figure 2 with QoS optimization (Release 2000). Figure 1 requires 4 blocks instantaneous bit rate though Figure 2 requires 2 blocks.

In a simple calculation, if one of the longer data frames in Figure 1 is, e.g., user bit rate 144kbit/s and its TTI is 80 ms, the size of the data frame is 144kbit/s\*80ms = 1440 octets = 32 CPS packets = 33 ATM cells.

And if the allowed transmission time on the Iub interface is short (for example 5 ms), the required instantaneous bit rate on the Iub interface is 53 octets\*8 bits\*33 ATM cells / 5 ms = 2.8 Mbit/s.



#### Figure 1 Example possible Release 99 scheduling at a cell with no QoS optimization at transmission

#### Release 2000

Figure 2 shows example possible scheduling with QoS optimization for AAL type 2 connections. SRNC may assign future CFN to the longer data frame (non-real time traffic) according to expected propagation delay over underlying VC(s) to be arrived on time at destination Node B(s). Other assumptions for this Figure 2 are as same as in Note for Figure 1.

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Even in case of collision of the scheduling, real time (stringent real time) traffics are given higher priorities then possible delay of real time (stringent real time) traffics or thicker Iub transmission can be avoided.

If the allowed transmission time on the Iub interface for the longer data frame (e.g. 144kbit/s user bit rate) in Figure 2 is longer (for example 50 ms), the required instantaneous bit rate on the Iub interface for the longer data frame is 53 octets\*8 bits\*33 ATM cells / 50 ms = 0.28 Mbit/s.

In a simple calculation, if one of the shorter data frames in Figure 2 is, e.g., user bit rate 12.2kbit/s and its TTI is 20 ms, the size of the data frame is 12.2kbit/s\*20ms = 31 octets = 1 CPS packets = 1 ATM cells. And if the allowed transmission time on the Iub interface for the shorter data frame is short (for example 5 ms), the required instantaneous bit rate on the Iub interface for the shorter data frame is 53 octets\*8 bits\*1 ATM cells / 5 ms = 0.09 Mbit/s.

#### The total required instantaneous bit rate on the Iub interface is 0.37 Mbit/s





# 5 UTRAN transport network configuration

This clause shows possible lur interface transport network configuration those should be considered in the solution for QoS optimization of AAL type 2 connections over Iub and Iur interfaces. Iub transmission with intermediate ATM switch or AAL type 2 switch is not excluded.

#### 5.1 Direct connection

Figure 4 shows possible Iur interface transport network configuration with direct connections (broken lines) among RNCs.



Figure 4: Direct connections

## 5.2 ATM switch

Figure 5 shows possible Iur interface transport network configuration with ATM switch (broken lines) among RNCs. Terminating nodes of underlying VCs for Iur interfaces are RNCs as same as Direct connection case.



Figure 5: ATM switch

## 5.3 AAL type 2 switch

Figure 6 shows possible lur interface transport network configuration (can be common for lu interface transport) with AAL type 2 switch (broken lines) among RNCs. Underlying VCs for lur interfaces are star configuration from CN/AAL type 2 switch to RNCs.



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Figure 6: AAL type 2 switch

# 6 Solution for QoS optimization of AAL type 2 connection

This clause lists up possible solution to realize QoS optimization of AAL type 2 connections.

# 6.1 Priority capability in Q.2630.2<sup>[6]</sup> (Q.aal2 CS2)

This subclause introduces "Path type" capability in Q.2630.2<sup>[6]</sup> to realize QoS optimization for AAL type 2 connection in line with  $I.363.2^{[2]}$  (3) that QoS is provided by the ATM layer. This solution can be applied also in the case of intermediate AAL type 2 switches.

# 6.1.1 Path type capability

Figure 7 shows the idea of Path type capability. The capability to select a succeeding AAL type 2 path or underlying VC according to the requested path type is deployed in AAL type 2 endpoints and AAL type 2 switching nodes. An AAL type 2 connection is established within a series of AAL type 2 paths align with the requested path type.

Absence of the new parameter "Path type" in the ESTABLISH.request primitive at an originating AAL type 2 endpoint or in the Establish Request message at an AAL type 2 switching node indicates that the network default stringent AAL type 2 path expected in Q.2630.1<sup>[5]</sup> is requested. In case of presence, the parameter indicates the requested QoS for the AAL type 2 path. The path type parameter contains an ATM QoS codepoint, 0 - 255. The code points 1, 2, and 5 indicate stringent, tolerant, and stringent bi-level respectively. The code points 0, 3, 4, and 6 - 127 are reserved for assignment by ITU-T. The code points 128 – 255 are reserved for network specific assignment.

The codepoint is just an indicator to select an AAL type 2 path and the exact QoS of the AAL type 2 path for the codepoint is implementation specific. However all the QoSs indicated by the code points have to be within the boundaries of stringent class, tolerant class, or stringent bi-level class defined in I.356<sup>[1]</sup>.

Expected difference of QoS for the QoS optimization use is mainly CTD (Cell transfer delay) and CDV (Cell delay variation) within the boundary of stringent class defined in I.356<sup>[1]</sup>. Looser CTD and CDV must require thinner virtual bandwidth may be applied for non-real time traffic. The expected difference of QoS for user traffic may be originated by UMTS QoS classes (conversational, streaming, interactive, and background) in 3G TS 23.107<sup>[8]</sup>. But the number of path types for the user traffic at a section may be extended or converged from the four QoS classes. The number of path types at a section is also implementation specific.





# 6.1.2 Application of Q.2630.2<sup>[6]</sup> onto UTRAN transport network

Figures 8 and 9 show how QoS related IE will be informed to related nodes in each transport network configuration. RAB parameter IE of RANAP<sup>[10]</sup> is interpreted to path type IE of ALCAP<sup>[6]</sup> at SRNC.



Figure 8: Direct and ATM switch cases

#### MSC/SGSN Node B DRNC AAL2-SW SRNC RANAP (RAB parameters) RNSAP (-) ALCAP ((path type)) = MSC case ALCAP = M\$C case NBAP (-) NBAP RNSAP ALCAP (path type) ALCAP (path type) ALCAP ALCAP (path type) ALCAP ALCAP RANAP (C-plane) (U-plane) For real t me traffic or\_non-rea hinhe\_traffi GTP-

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## 6.1.2.2 AAL type 2 switch case

Figure 9: AAL type 2 switch case

### 6.2 Other solution

There is no other existing or emerging standardized solution for QoS optimization of AAL type 2 connection at AAL2 level or ATM level which can be applied to both cases with and without intermediate AAL type 2 switch in Release 2000 time frame.

# 7 Backward compatibility

# 7.1 Backward compatibility between Q.2630.1<sup>[5]</sup> and Q.2630.2<sup>[6]</sup>

 $Q.2630.1^{[5]}$  and  $Q.2630.2^{[6]}$  have their own compatibility mechanism since  $Q.2630.1^{[5]}$ . How to utilize the mechanism, see section 8.2.1.4 "Interworking with AAL type 2 nodes conforming only to ITU-T Recommendation Q.2630.1" and Annex B "Coding of the compatibility information" of  $Q.2630.2^{[6]}$ .

 $Q.2630.2^{[6]}$  specifies optional capabilities/features to enhance  $Q.2630.1^{[5]}$ . And  $Q.2630.2^{[6]}$  includes  $Q.2630.1^{[5]}$ . This means if you do not utilize a new capability in  $Q.2630.2^{[6]}$ , related implementation with the capability is not affected even if you refer  $Q.2630.2^{[6]}$ .

## 8 Change request

This clause lists up place where Change request needs to be given to enhance Release 99 specification to Release 2000 specification for the work task.

# 8.1 Q.2630.1<sup>[5]</sup> to Q.2630.2<sup>[6]</sup>

Table 1 shows place where Change request is needed to refer Q.2630.2<sup>[6]</sup>. Q.2630.2<sup>[6]</sup> was determined (technically frozen) at March 2000 and is planned to be decided (final approval) at November 2000.

3G TS/TR	Title	Clause/Subclause	Number of point(s)	Remarks
3G TS 25.410	UTRAN Iu interface: general aspects and principles	4.5.2.1, 6.2 Figure 6.1	Subtotal: 2	
3G TS 25.414	UTRAN lu interface: data transport & transport signalling	Contents - 5.2.2.1, 2 [10], 5.2.1 Figure 2, 5.2.2.1	Subtotal: 5	
3G TS 25.420	UTRAN lur interface: general aspects and principles	8 Figure 4	Subtotal: 1	
3G TS 25.424	UTRAN lur interface: data transport & transport signalling for common transport channel data streams	2 [4], 6.2	Subtotal: 2	
3G TS 25.426	UTRAN lur and lub interfaces: data transport & transport signalling for DCH data streams	2 [5], 7.2 Figure 2, 8.2 Figure 3	Subtotal: 4	
3G TS 25.430	UTRAN lub interface: general aspects and principles	7 Figure 7	Subtotal: 1	
3G TS 25.434	UTRAN lub interface: data transport & transport signalling for common transport channel data streams	2 [3], 6.2, 7.2, 7.2 Figure 2	Subtotal: 5	
3G TR 25.931	UTRAN functions, examples on signalling procedures	Contents - 4.6.1, 4.6, 4.6.1, 4.6.1 Figure 2	Subtotal: 5	

#### Table 1: Place where Change request is given (Q.2630.2<sup>[6]</sup>)

# 8.2 I.363.2 (09/97)<sup>[2]</sup> to Revised I.363.2 (2000)<sup>[3]</sup>

Table 2 shows place where Change request is needed to refer revised  $I.363.2^{[3]}$ . Revised  $I.363.2^{[3]}$  has new Annex C to facilitate the understanding of the switching aspects of AAL type 2 connections and is kinder reference for readers. Revised  $I.363.2^{[3]}$  was determined (technically frozen) at March 2000 and is planned to be decided (final approval) at November 2000.

3G TS/TR	Title	Clause/Subclause	Number of point	Remarks
3G TS 25.414	UTRAN Iu interface: data transport & transport signalling	2 [2]	Subtotal: 1	
3G TS 25.415	UTRAN lu interface: user plane protocols	2 [7]	Subtotal: 1	
3G TS 25.424	UTRAN lur interface:	2 [2]	Subtotal: 1	

Table 2: Place where Change request is given (Revised I.363.2<sup>[3]</sup>)

	data transport & transport signalling for common transport channel data streams			
3G TS 25.425	UTRAN lur interface: user plane protocols for common transport channel data streams	2 [2]	Subtotal: 1	
3G TS 25.426	UTRAN lur and lub interfaces: data transport & transport signalling for DCH data streams	2 [3]	Subtotal: 1	
3G TS 25.434	UTRAN lub interface: data transport & transport signalling for common transport channel data streams	2 [1]	Subtotal: 1	

# 8.3 Handling of other new capabilities in Q.2630.2<sup>[6]</sup>

One of other new capability in  $Q.2630.2^{[6]}$  "Modification of AAL type 2 connection resources (link characteristics)" may be utilized for UTRAN. However it is out of scope of the present document and may need other work task. It is restricted to utilize the capability in UTRAN for the moment.

A CR is given to 3G TR 25.931 "UTRAN functions, examples on signalling procedures" section 7.8.1 "DCCH on DCH – Syncronised" that

"10. SRNC initiates modify of Iub (Serving RNS) Data Transport bearer. The same does DRNC with its own Iub. SRNC initiates modify of Iur (Serving RNS) Data Transport bearer. In the case that ALCAP is implemented by Q.AAL2 (Q.2630. $\frac{12}{2}$ ) it implies the release of the existing bearer and the establishment of a new one."

# Annex A: Change history

Change history								
Date	Date TSG # TSG Doc. CR Rev Subject/Comment					Old	New	

Document history					
Date Version Comment					
25 <sup>th</sup> April 2000	0.0.0	Proposed first draft.			
16 <sup>th</sup> May 2000 0.0.0.3		Input to R3#13 meeting, $22^{nd} - 26^{th}$ May 2000.			

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Document history						
Date	Version	Comment				
16 <sup>th</sup> June 2000 0.1.0		Table of contents reflects comments given at R3#13 meeting, 22 <sup>nd</sup> – 26 <sup>th</sup> May 2000: consideration on all possible solutions and backward compatibility. Proposed revised text under the revised table of contents, adding relationship with scheduling and reflecting possible proprietary enhancement to referred ITU-T recommendations for the QoS optimization.				
21 <sup>st</sup> June 2000	0.1.1	Input to R3#14 meeting, $3^{rd} - 7^{th}$ July 2000. Clean version of V0.1.0.				
24 <sup>th</sup> July 2000	0.1.2	Input to R3#15 meeting, $21^{st} - 25^{th}$ July 2000. Reflects the memo by the delegate rapporteur at R3#14 meeting and R3-001989 ad hoc report.				
25 <sup>th</sup> August 2000	0.2.0	Output from R3#15 meeting, $21^{st} - 25^{th}$ August 2000. Reflects agreement in the ad hoc session.				
Rapporteur for 3G TR 25.	934 is:					
Takayuki Yoshimura Japan Telecom Tel. : +81 3 4288 2287 Fax : +81 3 4288 2341 Email : yosi@japan-telecom.co.jp						
This document is written in Microsoft Word version 98.						

# Annex B (Temporary): Document Stability Assessment Table

(Sub) clause	Content missing	Incomplete	Content Checking needed	Editorial work required	Almost stable	Stable
1						
2						
3.1						
3.2						
3.3						
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