

Technical Specification Group Services and System Aspects **TSGS#12(01)0342**
Meeting #12, Stockholm, Sweden, 18-21 June 2001

Source: TSG SA WG2
Title: WID for QoS in Rel4 (for clarification) : UMTS QoS Architecture for PS Domain
Agenda Item: 7.2.3

This contribution proposes the Work Item UMTS QoS Concept and Architecture for Release 4.

The restructuring of the QoS work "Ensure reliable QoS for PS domain" was endorsed at TSG SA#11 into UMTS QoS only, for Release 4 and End to End QoS for Release 5. UMTS QoS only for Release 4 was agreed as completed at TSG SA #11. Unfortunately no official work item was in place for the QoS work. For the sake of completeness of records and the update of the work plan MCC has requested S2 to produce a WID for QoS in UMTS. The plan is to have this WI agreed at the SA2#18 meeting and then, submitted to TSG-SA#12 meeting for approval.

Work Item Description

UMTS QoS Architecture

1 3GPP Work Area

X	Radio Access
X	Core Network
	Services

2 **Linked work items**

3 **Justification**

As UMTS services are expected to generate considerable revenue streams for operators it is necessary to provide reliable UMTS QoS architecture.

4 **Objective**

The objective of this WI is to provide a QoS Framework within UMTS and ensure the negotiation/re-negotiation of QoS parameters for the Radio Access Bearer Service. The main purpose is to specify the list of attributes applicable to UMTS Bearer Service and Radio Access Bearer Service, as well as describe the Quality of Service Architecture to be used in UMTS networks.

5 **Service Aspects**

None

6 **MMI-Aspects**

None

7 **Charging Aspects**

Yes

8 **Security Aspects**

Yes

9 **Impacts**

Affects:	USIM	ME	AN	CN	Others
Yes			X	X	
No					X
Don't know					

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
23.107		QoS Concept and Architecture		TSG-SA#11		
24.008						QoS IE
25.413						RAB QoS Negotiation, Renegotiation and Negotiation at Relocation
25.946 25.851 29.060 29.061						RAB QoS Negotiation RAB QoS Renegotiation GTP protocols Interworking between PLMN and PDN

11 Work item rapporteurs

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12 Work item leadership

TSG-SA2

13 Supporting Companies

Motorola, Ericsson, Nortel Networks, CommWorks , Siemens, Cisco, Alcatel, Nokia,
ATT Wireless, France Telecom, Lucent

14 Classification of the WI (for TSG-SA1)

X	Feature (go to 14a)
	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature
QoS for UMTS networks

UMTS QoS Requirements (SA1)
UMTS QoS Architecture (SA2)
UMTS QoS Security Aspect (SA3)
UMTS QoS Charging and QoS Management (SA5)
UMTS QoS IE for PS Domain (CN1)
UMTS QoS Interwork with External Networks (CN3)
RAB QoS negotiation and re-negotiation for R4 (RAN3)
RAB QoS Renegotiation at Relocation (RAN4)

14b The WI is a Building Block: parent Feature

14c The WI is a Work Task: parent Building Block