TSG-SA Working Group 2 meeting #18   *S2-011098*
Puerto Rico, U.S.A., May 14 – 18, 2001

To:	SA WG1, SA WG3, SA WG5, CN WG1, CN WG3, CN WG4, RAN WG3
CC:	SA WG4, CN WG5, RAN WG1, RAN WG2, T WG1, T WG2, T WG2
Source:	**SA WG2**
Title:	WI on the End-to-End QoS Architecture for Release 5

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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. SA and MCC realized there was no official QoS WI for R5, even though; the stage 2 works has been in progress for the last 6 months.

At the S2#18 (May 14-18) meeting a new Work Item on the End-to-End QoS for Release 5 was approved. In this new WI a list of QoS workplan building blocks and impacted TS from various WGs were identified.   This work item (S2-011089) is included in this LS for information.

Title: **Work Item Description for Release 5: End to End QoS Concept and Architecture for PS Domain (including IM subsystem) [WI for Building Block]**

Source: **S2 QoS Ad Hoc Group**

Purpose: **Discussion and approval, later SA2#18 : For Approval**

This contribution proposes the Work Item End to End QoS Concept and Architecture for PS Domain for Release 5.

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.
SA and MCC realized there was no official QoS WI for R5, even though, the stage 2 works has been in progress for the last 6 months. Hence, Motorola took an initiative to generate this WI. The plan is to have this WI approved at the SA2#18 meeting and generate a Liaison Statement to the impacted WGs with the approve WI. Then, submitted the approved WI to TSG-SA#12 meeting.

Work Item Description

End-to-End QoS for PS Domain

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

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3   Justification

As IP Multimedia services are expected to generate considerable revenue streams for operators it is necessary to provide reliable E2E QoS architecture and define mechanisms for the Packet Switch domain.

4   Objective

As UMTS QoS is already available in PS domain the objective of this WI is to provide a QoS Framework that complements TS23.107 and define the End to End QoS Concept and Architecture involving GPRS network. In addition QoS Management and QoS Charging aspects shall be specified.

5   Service Aspects

None

6   MMI-Aspects

Yes

7   Charging Aspects

Yes

8   Security Aspects

Yes

9   Impacts

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

10   Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
23.207	E2E QoSConcept and Architecture	TSG-SA2	TSG-CN3		TSG SA#12	
29.xxx	E2E QoS interworking	TSG-CN3		TSG CN#13	TSG CN#14	
32.xxx	QoS Management (Provisioning and Monitoring)	TSG-SA5		TSG SA#14	TSG SA#15	The need for this specification, or possibly integration into existent specifications, will be evaluated by SA5

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
23.060				GPRS stage 2
23.107				UMTS QoS
23.228				IMS stage 2
24.008				QoS IE
24.228				SIP QoS Session call flow
24.229				SIP QoS Protocols
25.413				RAB QoS Negotiation, Renegotiation and Negotiation at Relocation
25.946				RAB QoS Negotiation
25.851				RAB QoS renegotiation
29.060				GTP protocols
29.061				Interworking between PLMN and PDN
32.101				Overview of QoS Management
32.104				Support for QoS Monitoring (related Measurement Definition and Collection).
32.105				QoS Aspects of 3G Call Event Charging
32.106				QoS Provisioning
32.111				Support for QoS Alarm Monitoring

11   Work item raporteurs

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12   Work item leadership

TSG-SA2

13   Supporting Companies

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

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

End to End QoS for PS Domain

End-to-End QoS Requirements (SA1)
End-to-End QoS Architecture (SA2)
End-to-End QoS Security Aspect (SA3)
End-to-End QoS Charging and QoS Management (SA5)
End-to-End QoS IE for PS Domain (CN1)
End-to-End QoS Interwork with External Networks (CN3)
RAB QoS negotiation and re-negotiation (RAN3)

14b   The WI is a Building Block: parent Feature

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