

Agenda Item:

Source: TSGS1

Title: Work Item Description

Document for: Decision

x Quality of Service Requirements

x.1 SMG project

	UMTS Radio Access
	GSM Radio Access
	GSM-UMTS Core Network
XX	UMTS Services

x.2 Linked work items

Enhanced QoS Support in GPRS (R98)
End to End (ETE) UMTS QoS Management

x.3 Justification

UMTS 22.05 states requirements on bearer services and attributes, including QoS parameters.

The implementation of QoS mechanisms is specified by other groups. Experience from ETSI/SMG sub-groups has shown that it has been difficult to achieve a total correlation between QoS requirements and mechanisms respectively.

To improve this situation, this Work Item is defined to carefully study and formulate QoS requirements to both fulfill the needs of users and applications, and to give the necessary freedom for other groups to select the most appropriate implementation mechanisms(s).

x.4 Service Aspects

QoS requirements need to be formulated to fulfill the needs of users and applications. To ensure that this will be the case, a working procedure shall be used including a careful analysis of those needs.

The QoS requirements shall be formulated such that higher level requirements in, e.g., UMTS 22.00 and UMTS 22.01 are fulfilled, e.g. regarding which types of applications to be supported and which types of external networks to be able to connect to.

The formulation of the QoS requirements needs to be done very carefully in a way that is independent of the implementation; both to force a consideration of what is needed rather than what technical options exist, and to provide a constant reference document which can allow for the technical evolution of the underlying network. This would then allow technical experts in other groups to select the most appropriate implementation mechanism(s) based on clearly expressed needs.

x.5 MMI-Aspects

None identified.

x.6 Charging Aspects

UMTS 22.15 "Charging and Billing" needs to be checked for possible alignment with the result of this Work Item.

x.7 Security Aspects

May need to be checked by TSGSx.

x.8 Impacts

Affects:	USIM	ME	NW	Others
Yes		XX	XX	
No				
Don't know	XX			

x.9 Expected Output and Timescales (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. STC	2ndary rsp. STC(s)	presented for information at SMG#	approved at SMG#	Comments
Affected existing specifications						
Spec No.	CR	Subject		Approved at SMG#	Comments	
TS 22.05		QoS requirements				

x.10 Work item rapporteurs

Olle Eriksson (Ericsson)

x.11 Supporting companies

Ericsson, Nokia, Siemens, Telecom Modus, Telia.

x.12 Responsible STC(s)

Prime responsible: The joint group with TSGS1 and TSGS2 QoS experts.

Secondary responsible: None.

x.13 Others

The study initiated by this Work Item is proposed to be done in a joint group with TSGS1 and TSGS2 QoS experts.