

Agenda Item:

Source: Emanuele Montegrosso, TIM
Title: UMTS Charging and Accounting
Document for: Agreement

x UMTS Charging and Accounting

x.1 3GPP SA

X	WG1: Services
	WG2: Architecture
	WG3: Security
	WG4: Codec
	WG5: Network Management

x.2 Linked work items

None identified

x.3 Justification

The wide range of services capabilities, applications and interworking scenarios introduced by UMTS requires the definition of a comprehensive set of charging and billing features not always available in the GSM environment: whilst GPRS billing features will cover many aspects of packet data, these features don't address yet the QoS aspects required for multimedia and other packet-data oriented services.

Therefore, it's necessary to address, for example, Packet Data Services specific charging issues (e.g. long calls charging, low cost chargeable events), QoS based charging, Wideband, Multimedia (e.g. charging for services added during a call), Value Added services charging, Broadcast services charging, Advanced Addressing impacts on charging mechanisms, charging for the provisioning of VHE features in the serving network.

UMTS charging, billing and accounting requirements shall also cater for the different interworking scenarios: roaming and handover between environments (e.g. terrestrial cellular, Fixed/Cordless, Satellite), roaming and handover between second generation networks and UMTS.

A work item is therefore necessary in order to address these requirements and develop a solution for specific UMTS charging and accounting issues

x.4 Service Aspects

The main new requirements for UMTS charging and accounting are the following :

1. generation of standardized charging records based among other parameters on type of service (voice, data, multimedia, VAS, etc.) duration, traffic (volume, bit rate) and performance provided to the user.
2. support of on-line charging and accounting procedures for cost control and fraud control purposes
3. support of itemized billing
4. support of standardized procedures for the transfer of charging information between networks
5. support of roaming via third parties roaming platforms

x.5 MMI-Aspects

None.

x.6 Charging Aspects

This work item addresses all charging aspects of UMTS.

Concerning the pure GSM services, charging principles and accounting when roaming used to be primarily the responsibility of the GSM Association; for UMTS services it is felt that open standards will be needed.

x.7 Security Aspects

For fraud and cost control purposes it's required a standardized interface allowing for the efficient transfer of charging information between serving networks and home environment.

TSG-SA Working Group 1 (Services) meeting #1
Sophia Antipolis 1st - 5th February 1999

TSGS1#1(99)093

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x.8 Impacts

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

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

This work item is for release 1999

x.10 Work item rapporteurs

Emanuele Montegrosso

x.11 Responsible TSGs

Prime : TSG SA WG1