Technical Specification Group Services and System Aspects
Meeting #28, Quebec, Canada, 6-8 June 2005

TSGS#28(05) 0389

Source: SA1

Title: New WI for MBMS Enhancements

Document for: Approval

Agenda Item: 7.1.3

3GPP TSG-SA WG1 Meeting #28 **S1-050516**
Beijing, China, 4 - 8 April 2005

Source: China Mobile
Title: WID on MBMS Enhancements
Document for: Approval
Agenda Item 8.2

Work Item Description

Title

MBMS Enhancements

1 3GPP Work Area

X	Radio Access
X	Core Network
X	Services

2 Linked work items

MBMS (2544)
MBMS User Service (31045)
AIPN (31059)
I-WLAN(31012)

3 Justification

In the near future increasing deployment of MBMS services in operator network is foreseen. On the other hand, when users begin to benefit from MBMS, they soon will expect more stable services and more access alternatives for accessing them, e.g. via IP accesses such as WLAN.

From operators' point of view it would also be desirable to profit from the radio-resource efficient broadcast / multicast mechanisms provided by MBMS transport services for IMS based services. Examples could be value-added services like e-learning or PoC-enhancements. Additionally, MBMS should provide higher bit-rates for applications like digital TV etc.

For these purposes, although the basic functionality already exists in Rel-6 MBMS, additional requirements are necessary to enhance the current MBMS in Rel-7 and enable IMS to use MBMS transport.

4 Objective

The objective of this work item is to analyze the additional requirements proposed here and provides the required changes and additions to the current SA1 specifications. New requirements should be carefully considered regarding their effects on Rel-6 terminals and MBMS Rel 6 bearer service to ensure backwards compatibility.

- Enabling IMS to use the MBMS bearer service;
- MBMS reception over IP accesses, e.g. I-WLAN;
- Higher MBMS bit-rate services (The impact on the throughputs in the RAN should be investigated).
- Support for adaptation of MBMS to the QoS resources provided by the access network(s).

5 Service Aspects

MBMS Enhancement allows for MBMS usage independent of access technologies and other services to use MBMS transport.

6 MMI-Aspects

None

7 Charging Aspects

Charging aspects may be affected by introduction of new access technologies for MBMS.

8 Security Aspects

None

9 Impacts

Affects:	**UICC apps**	**ME**	**AN**	**CN**	**Others**
Yes		X	X	X	
No	X				
Don't know					X

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
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
22.146		Requirements		SA#30 (Dec., 2005)		
22.246		MBMS User Services		SA#30 (Dec., 2005)		
22.228		IMS to use MBMS transport		SA#30 (Dec., 2005)		

11 **Work Item Rapporteur**
Liu Hong (China Mobile)

12 **Work Item Leadership**
TSG SA1

13 **Supporting Companies**
China Mobile, LG Electronics, Huawei, ZTE, Telcordia Technologies, Siemens

14 **Classification of the WI (if known)**

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

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

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

(One Work Item identified as a building block)