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

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

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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.

- Enabling IMS to use the MBMS transport service;
- MBMS reception over IP accesses, e.g. I-WLAN;
- Higher MBMS bit-rate services
- 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

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)