

9 - 12 July 2002, Helsinki, Finland

Work Item Description

Title

Security Aspects of Multimedia Broadcast/Multicast Service (MBMS)

1 3GPP Work Area

X	Radio Access
X	Core Network
X	Services

2 Linked work items

*Multimedia Broadcast Multicast Service – SA
Enhancement of Broadcast and Introduction of Multicast Capabilities – RAN
Support of the Multimedia Broadcast Multicast Service in CN protocols – CN*

3 Justification

The Multimedia Broadcast/Multicast Service has some clear security requirements. If these are not met then the service will not satisfy the requirements set by SA1. It is the role of SA3 to ensure that the security requirements are met.

4 Objective

The objective of this work item is to satisfy the security requirements given in TS 22.146 and provide suitable input to SA2 to assist in defining the MBMS architecture.

A crucial requirement of MBMS is to be able to deliver content simultaneously to several users using network resources in an efficient manner. For the Multicast part of the service, users out side the target group should not be able to understand the transmitted data. In order to achieve this requirement, it is necessary to be able to authenticate subscribers and deliver the content in a secured manner.

The lawful Interception aspects of the MBMS will also be considered.

5 Service Aspects

MBMS should allow users to select one of a number of broadcast/multicast information sources, and to share with other users the network resources used to deliver that information.

Service level aspects are agreed in TS 22.146.

Architectural aspects are covered in TR 23.846.

6 MMI-Aspects

None identified

7 Charging Aspects

The ability to charge for access to, and use of, MBMS services shall be supported..

8 Security Aspects

This is a security work item.

9 Impacts

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

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

The results of this Work Item shall be provided in a Technical Standard or CRs to existing Technical Standards.

The following Work Plan is proposed.

Meeting	Date	Activity
S3#24	July 9-12, 2002	Approval of this WID. Discussion of trust model, threats and security requirements.
S3#25	October 8-11, 2002	Definition and agreement on security architecture for inclusion in the TS
S3#26	November 19-22, 2002	Refinement of the architecture and addition of the security mechanisms
S3#27	February 25-28, 2003	Finish the work of TS

New specifications						
Spec No.	Title	Prime resp. WG	2ndary resp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
TS 33.xxx	Security of Multimedia Broadcast/Multicast Service	SA WG3		SA#18 (12/02)	SA#19 (03/03)	
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	

11 Work item raporteurs

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12 Work item leadership

TSG SA WG3

13 Supporting Companies

Hutchison 3G UK, Lucent, Alcatel, Vodafone, Ericsson

14 Classification of the WI (if known)

	Feature (go to 14a)
X	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

MBMS, 2544

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

(one Work Item identified as a building block)