## 3GPP TSG-CN1 Meeting #36 Tdoc NP-040493
## Seoul, Korea, 15-19 November 2004

**Source:** CN1

**Title:** MBMS WID Update

**Agenda item:** 9.8

**Document for:** APPROVAL

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## 3GPP TSG-CN1 Meeting #36 Tdoc N1-041737
## Seoul, Korea, 15-19 November 2004

**Source:** CN1

**Title:** MBMS WID Update

**Agenda item:** 7.3

**Document for:** APPROVAL

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### Introduction

SA3 has informed CN1 by the LS in N1-041676/S3-040884 “it is proposed that CN1 would not be involved in finalising MBMS security”. Ericsson agrees with the LS sent by SA3 and Ericsson’s opinion is that the MBMS security work should be finalised by SA3 and SA4 and, then CN1 involvement is not needed.

All in all, attached is an updated version of the MBMS WID based on the latest approved version, i.e. NP-040369. The changes are as follows:

- The 3GPP TS 24.109 specification is removed as non-being affected by the MBMS WID.

This version of the WI has been reviewed and endorsed by CN1, CN3 and CN4 for their respective areas.

# Work Item Description

## Title

Support of the Multimedia Broadcast Multicast Service (MBMS) in CN protocols.

### 1 3GPP Work Area

| | |
|---|---|
| | Radio Access |
| X | Core Network |
| | Services |

### 2 Linked work items

*Multimedia Broadcastand Multicast Service – Stage 1, 2545*
*Multimedia Broadcast Multicast Service Architecture, 32703*
*Introduction of MBMS in RAN, 2481*
*Support of MBMS in GERAN, 50085*
*Security aspects of Multimedia Broadcast/Multicast Service (MBMS), 3308*

### 3 Justification

The specification of MBMS stage 1 is complete and stage 2 is well advanced. The work should now be started in CN groups to support this functionality.

### 4 Objective

The objectives of this work item:

- To define and develop the Radio layer 3 and CN signalling protocols to support MBMS to facilitate broadcast of multimedia services in a wireless network
- To allow handover between RNS's of terminals currently receiving an MBMS transmission.
- To ensure efficient use of network resources when sending multimedia information to multiple users.

### 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 TS 23.246.*

### 6 MMI-Aspects

*None – out of scope of this work item.*

### 7 Charging Aspects

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

### 8 Security Aspects

*Any MBMS solution must provide a secure procedure to gain access to MBMS information.*
*The security aspects of MBMS are defined by SA3. CN1 has to satisfy the security requirements on MBMS security that impact CN1 protocols given in TS 33.246.*

## 9 Impacts

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

## 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.

| New specifications | | | | | | |
|---|---|---|---|---|---|---|
| Spec No. | Title | Prime rsp. WG | 2ndary rsp. WG(s) | Presented for information at plenary# | Approved at plenary# | Comments |
| 29.846 | Multimedia broadcast / multicast service;<br>CN1 procedure description | CN1 | | | CN #25 (Sep. 2004) | |

| Affected existing specifications | | | | |
|---|---|---|---|---|
| Spec No. | CR | Subject | Approved at plenary# | Comments |
| 24.008 | | | CN #25 (September 2004) | Specialised PDP context for broadcast/multicast media streams is envisaged. |
| | | | | |
| 29.060 | | | CN #25 (September 2004) | Specialised PDP context for broadcast/multicast media streams is envisaged. |
| 29.061 | | | CN #25 (September 2004) | Gmb interface protocol and messages. |
| 23.003 | | | CN #25 (September 2004) | Definition of new data structure(s) for MBMS, e.g. TMGI, is envisaged. |
| 24.007 | | | CN #25 (September 2004) | Definition and/or modification of primitives and/or interfaces between the MS and network within the 3GPP system because of MBMS seem to be needed. |
| 44.065 | | | CN #25 (September 2004) | Update of SNDCP. |

| Affected existing or new IETF specifications | | | | |
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| | | | | |

## 11 Work item rapporteurs

Christian Herrero – Ericsson
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**12 Work item leadership**

CN1

**13 Supporting Companies**

3, Lucent Technologies, Samsung, Nokia, Ericsson, Siemens, NTT DoCoMo

**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 feature)

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| ~~24.109~~ | | | ~~CN #26 (December 2004)~~ | ~~MBMS security.~~ |
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