TSG-RAN meeting #11   RP-010207
Palm Springs, USA, 13-16 March 2001

Title: **Proposed Work Item description sheet on "Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN"**
Document for: **Approval**
Source: **Nokia, Hutchison 3G & Omnitel/Vodafone**
Agenda Item   **6.11**

Work Item Description

Title

Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN

1   3GPP Work Area

X	Radio Access
	Core Network
	Services

2   Linked work items

Note: WIs in SA1 and SA2/ T2 may be found necessary to be created:
SA1 to specify the requirements set by multicast and broadcast applications provided in modern and future multimedia networks.
SA2/T2 to specify the overall network requirements and the stage 2 for multicast and broadcast applications in modern and future multimedia networks.

3   Justification

In Rel-99, service continuity regarding Cell Broadcast Service was implemented, but other point-to-multipoint services or applications are not covered. The intention of this WI is to improve the radio interface to support broadcast and multicast applications with high bit rates (e.g. multimedia broadcast and multicast).

4   Objective

The objective of this WI is to analyse and provide the necessary changes and additions required in the current RAN specifications.
- Identification and analysis of optimized transmission capabilities of RAN to support multimedia broadcast and multicast applications including:
  - increase of message size to support multimedia messages (today's supported size is too small, around 1200 octets)
  - introduction of audio and video streaming.
- Analysis and enhancement of the existing Iu-BC interface to support multicast applications.
- Identification of UTRAN functions needed to be standardized to support multicast applications.
- Identification and analysis of a UTRAN multicast mobility functions.

5   Service Aspects

Multicast service capabilities are introduced.

6   MMI-Aspects

None

7   Charging Aspects

It shall be possible to charge the receiver of the multicast.

8   Security Aspects

It shall be possible to secure multicast.

9   Impacts

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

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
TR	Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN	R2	R3, R1, R4	RAN #12	RAN #13	New Technical Report

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
25.301				
25.302				
25.304				
25.306				
25.321				
25.322 25.324 25.331 25.419				

11   Work item raporteurs

Nokia (Dimitris Koulakiotis)

12   Work item leadership

TSG-RAN WG2

13   Supporting Companies

France Telecom, Hutchison3g, Mannesmann Mobilfunk , Nokia, Omnitel/Vodafone, Orange PCS Ltd, Siemens

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

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)