Title:	**Proposed Revision for Work Item Description sheet on "Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN"**
Document for:	**Approval**
Source:	**Nokia,**
Agenda Item	**8.7**

Introduction

The following changes are proposed to the WID:

1. Change of WID name from " **Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN** " to "**Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN** ". This issue was also discussed during the 3GPP MBMS WS and it was found that a new name is needed that will reflect in a clear way the relationship of this WI with the corresponding ones in SA1, SA2 and CN1.

2. Updating of the RAN2 and RAN3 WI objectives.

3. Updating of section 2 "Linked WIs":
   ▪ Introduction on SA2 23.246 TR
   ▪ Introduction on the new CN1 WI that was approved during CN1 #23.

4. Rewording of section 4 "Objectives" to reflect better the work that needs to be done.

5. Small editorial changes to sections 5 and 7.

6. Section 10:
   ▪ Renaming of the RAN TR according to the proposed new WID name.
   ▪ Adjustment of the RAN TR submission dates
   ▪ (Addition of more specs that could be affected)

Note: This is revision of Tdoc 349 which has the list of affected specifications removed from the WI sheet based on the discussions on Tdoc 349.

Work Item Description

Title: ~~Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN~~ Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN

1   3GPP Work Area

X	Radio Access
	Core Network
	Services

2   Linked work items

- TSG SA WG1 WI title: "**Enhancement of Broadcast and Introduction of Multicast**"
=> TS 22.146: "Multicast Broadcast Multimedia Service (MBMS)-Stage 1"

- TSG SA WG2 WI title: "**Multimedia Broadcast/Multicast Service Architecture**"
=> TS 23.846: "Multimedia Broadcast/Multicast Service; Architecture and Functional Description"

- TSG CN WG1 WI title "**Support of the Multicast Broadcast Multimedia Service (MBMS) in CN protocols**"
=> Approved during CN1#23 (in Tdoc N1-020739)

More WIs could be generated during the course of 2002.

3   Justification

TSG SA1 has been working on the service requirements of MBMS which is a new bearer service. TS 22.146 is the specification for the MBMS service requirements defined by TSG SA WG1.
TSG SA2 has already started discussions (SA WG2 #20 meeting) on the architectural issues of MBMS.
The intention of this WI is to address the RAN issues and required changes in order to accommodate MBMS.

4   Objective

~~The objective of this WI is to analyse and provide the necessary changes and additions required in the current RAN specifications.~~
~~Analysis and enhancement of optimized solutions over the air interface for support of MBMS.~~
~~Analysis and enhancement of the existing interfaces needed to support MBMS.~~
- ~~Analysis and creation/modification of UTRAN functions needed to be standardized for the support of MBMS.~~

The objective of this WI is to analyse and provide the necessary changes and additions required for the efficient support of MBMS in the current RAN specifications. Some possible study areas are listed below:

- analysis and creation/modification of UTRAN functions needed to be standardized for the efficient support of MBMS
- impact on the logical/transport/physical channels
- impact on the radio interface protocols
- impact on the "MBMS context" concept on RAB signalling
- impacts on Iub and Iur and Iu-ps
- decision making process between point-to-point or point-to-multipoint configurations needed for MBMS Multicast mode
- interaction between MBMS and Iu-flex
- security aspects

5   Service Aspects

Multimedia Broadcast and Multicast service capabilities have beenare introduced.

6   MMI-Aspects

None

7   Charging Aspects

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

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 endorsement at plenary#	Approved at plenary#	Comments
TR	~~Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN~~ Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN.	R2	R3, R1, R4	RAN #1~~7~~6	RAN #1~~8~~7	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				

11   Work item raporteurs

Nokia (Dimitris Koulakiotis)

12   Work item leadership

TSG-RAN WG2

13   Supporting Companies

~~TSG-RAN~~Nokia, Lucent Technologies, Siemens, Nortel Networks

14   Classification of the WI (if known)

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