

3GPP TSG-RAN meeting #16
Marco Island, USA, 4th - 7th June 2002

RP-020445

Agenda Item: 8.7
Source: Samsung, Qualcomm, Hutchison 3G
Title: On work scope of MBMS WI in RAN.
Document for: Discussion

Background

During the MBMS workshop held in London on 6 ~ 7 May 2002, there were several technical contributions[1] proposing new concepts such as a channel structure for MBMS[1], power control for MBMS[2], soft handover for MBMS[1,3] and scalable MBMS[4] etc. These issues may have some impacts on the radio physical layer and need to be analysed from the physical layer point of view as well as regarding high layer aspects.

After a draft version of the Modified Work Item Description sheet was uploaded on e-mail reflector, there was an email discussion among several companies. Through this email discussion, finally, there was a common understanding that MBMS may bring about physical layer impacts and their related descriptions need to be included in Work Item Description sheet.

Discussion

In principle, the Work Item Description sheet should describe all the relationships of the corresponding work with the related workgroups and all the possible objectives per each impacted workgroup in a clear and obvious way.

Therefore, considering the above MBMS workshop contributions and email discussion, impacts on physical layer aspects such as analysis on physical layer procedures and corresponding UE functionality need to be included in the Modified Work Item Description sheet [5].

As for physical layer impacts, listing of related physical layer specifications in the relevant table, just like that of the other high layer specifications, looks reasonable.

Proposal

In order to clearly describe all the related work scope of MBMS, physical layer procedures and UE functionality also should be considered. Additionally, all the possibly impacted specifications, including the physical layer ones, should be listed in the table.

It is also proposed that the radio requirements should be defined, as a matter of urgent, in order to speed up the work item completion for the Release 6 time frame.

References

- [1] MBMS_000029, MBMS: UTRAN Aspects, Qualcomm
- [2] MBMS_000013, RAN Requirements to support MBMS, Hutchison 3G
- [3] MBMS_000032, Soft handover for MBMS, Samsung
- [4] MBMS_000033, Scalable MBMS, Samsung
- [5] RP-020349: Proposed Revision for Work Item Description sheet on "Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN", Nokia