
3GPP TSG-SA WG2 meeting #37
Innsbruck, 12th – 16^s January 2004

Tdoc S2-040459

Title: Reply LS on "Multiple MBMS Issues"
Response to: S4-030847 / S2-040020
Release: Rel-6
Work Item: MBMS

Source: 3GPP SA WG2
To: SA4, RAN2, GERAN2
Cc: SA1, RAN, RAN4, GERAN, RAN1, RAN3, GERAN1

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Attachments:

Overall Description

SA2 would like to thank SA4 for their extensive LS on multiple MBMS issues. SA2 has reviewed the issues raised in the LS and would like to provide the following comments:

1. Cell synchronization for 'download and play'

The LS states (2.1.7) that inter-cell synchronization is necessary for 'download and play' service. SA2 would like to point out that section 6.3 of TS 23.246 outlines the characteristics of the different bearer classes. It is SA2's understanding that background class bearers are a suitable and possibly a preferred alternative for transporting 'download and play' service data. For the background bearer class there is a trade-off between adaptation to available resource (by means of data buffering) and reduction of losses on cell change (by means of smaller data buffers, which effectively provides synchronization). Error correction schemes employed at the BM-SC should be used to counter-act possible losses, including losses due to mobility.

2. Parallel MBMS bearers

The LS states (2.1.1) that reception of data from multiple MBMS bearers is required depending on UE capabilities. To allow a UE to receive multiple bearers in parallel certain constraints may be imposed on how resources are allocated for MBMS bearers on the radio interface. SA2's understanding is that this might require specific bearers to be grouped on a single physical channel or a single carrier frequency in order to be received in parallel. This grouping of MBMS bearers may require additional information from the core-network to the RAN.

ACTION

To SA4:

SA4 is kindly requested to consider the possibility of certain un-synchronisation of the transmission in different cells.

To RAN2:

RAN2 is kindly requested to consider the possibility of certain un-synchronisation of the transmission in different cells.

RAN2 is kindly requested to confirm SA2's understanding with regards to reception of multiple MBMS bearers in parallel and to indicate whether additional information on bearer groupings is required for parallel reception of MBMS bearers.

To GERAN2:

GERAN2 is kindly requested to consider the possibility of certain un-synchronisation of the transmission in different cells.

GERAN2 is kindly requested to confirm SA2's understanding with regards to reception of multiple MBMS bearers in parallel and to indicate whether additional information on bearer groupings is required for parallel reception of MBMS bearers.

Date of Next Meetings

SA2 #38	16-20 February 2004	Atlanta, USA
SA2 #39	19-23 April 2004	China