TSG-RAN meeting #20   RP-030266
Hämeenlinna, Finland,
3rd-6th June 2003

Status Report for WI to TSG

Work Item Name: "Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN"

SOURCE: Nokia (Dimitris Koulakiotis)   **TSG:** RAN WG2

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Ref. to WI sheet: RAN_Work_Items.doc

Progress Report since the last TSG (for all involved WGs):

The TR 25.992 (MBMS UTRAN/GERAN Requirements) is presented to RAN2#20 for approval.
In addition, as agreed during RAN#19, the TS 25.345 (UTRAN MBMS Stage-2) is presented to
RAN2#20 for information and approval. The documents can be found in the following Tdocs:

> **RP-030309 3GPP TS 25.346 v2.0.0: "Introduction of Multimedia Broadcast/Multicast
> Service (MBMS) in the Radio Access Network (Stage-2)"**
> The above TS corresponds to TS 25.346-161 that was endorsed during RAN2#36.

> **RP-030310 3GPP TR 25.992 v2.0.0: "Multimedia Broadcast/Multicast Service (MBMS);
> UTRAN/GERAN requirements"**
> The above TR corresponds to TR 25.992-130 that was endorsed during RAN2#36 (and has
> already presented for info in RAN#19).

Since the last plenary, MBMS discussions took place in:
- ?? RAN2/3 MBMS Adhoc (a replacement for the cancelled RAN2/3#35).
- ?? RAN2/3#36
- ?? RAN1-RAN2 MBMS Session (during RAN2#36)

Since RAN#19, RAN2 has progressed the MBMS discussions and stage-2 TS and the following points
were agreed during the RAN2 MBMS AdHoc:
- ?? The functional description on MAC-c/sh/m section has now been added.
- ?? The TS now reflects the decision that the MBMS MBMS logical channels MCCH and MTCH are
  to be mapped on FACH.
- ?? The MBMS Control Plane Protocol Stack was also agreed and the relevant figure has been
  added.
- ?? Signalling flows on "MBMS RADIO BEARER INFORMATION" and "MBMS SERVICE
  AVAILABILITY" were agreed and added to the corresponding sections.

Through the discussion of the RAN3 MBMS AdHoc, the following points were agreed:
- ?? Signalling flows on UE linking and De-linking were agreed and added to the TS.
- ?? MBMS "Session start and stop" section was added.
- ?? Some changes were done in section "One Iu flow per RNC per MBMS Service".
- ?? Some editorial changes were made to improve the consistent use of terms throughout the TS.

RAN2#36 approved the decisions of the MBMS AdHoc and endorsed the AdHoc version of the TS
(v.160) with some changes (thus, latest version is v161).
Also RAN3#36 endorsed the agreements and updated TS, from RAN3 MBMS AdHoc.

The RAN1-RAN2 joint MBMS session addressed MBMS L1 requirements and UE capabilities issues. A
good exchange of information took place and a number comments were made, but no decisions were
reached. More progress is expected on the RAN1 MBMS aspects in the August 03 RAN1 meeting.

List of Completed elements (for complex work items):
?? TSG SA1: Stage-1 (TS-22.146) has been completed.
?? TSG SA2: Stage-2 (TR 23.846) has been completed.

List of open issues:
?? UTRAN MBMS architecture principles and signalling flows.
?? MBMS Notifications solution.
?? Details on MBMS UTRAN protocol stack.
?? Details on MBMS Logical/Transport channels issues.
?? L1 MBMS issues.

Estimates of the level of completion (when possible):
The current completion date (decided in RAN#19 plenary) is September 2003. RAN2#36 concluded that the WI cannot be completed by then and thus the RAN MBMS WI completion date needs to be addressed by this plenary.
The RAN MBMS TR and TS are considered by RAN2 to have progressed sufficiently to be presented for approval in RAN#20.

WI completion date review resulting from the discussion at the working group:
Alignment with the equivalent TSG SA WG2 WI on MBMS architecture i.e. Rel-6.

References to WG's internal documentation and/or TRs: