TSG-RAN meeting #3
Yokohama, Japan, 21-23, April 1999

TSGR#3(99)257

Agenda Item: 5.3

Source: **TSG RAN WG2 Chairman**

Title: Status report of TSG RAN WG2

Document for: Approval

Since the last TSG RAN #2, TSG RAN WG2 held two meetings.

The current work plan of TSG RAN WG2, which is contained in the companion document RP-99258, was essentially met. The work plan was not changed since the last TSG RAN #2.

Generally, work is progressing well, and what is currently in the documents from WG2 is stable. Still, more work is needed on the protocol, and also many liaisons were sent to other groups within and outside of TSG RAN in order to progress some aspects. Some features which are candidates for the release 99 are also still under discussion.

The status of the documents presented for approval according to the work plan are the following:
- The radio interface protocol architecture is stable, and is proposed for approval in S2.01.
- The services of the physical layer are now stable, and are proposed for approval in S2.02. Some primitives between the physical layer and upper layers are still missing. Also, the parameters for the transport channel definitions are identified, but the quantified values for the parameters need to be produced. Inputs from SA2 are necessary on this last point.
- The procedures in connected mode are now stable and are proposed for approval in S2.03.
- The MAC architecture is now stable and complete. The protocol and PDUs have been started, and little work is needed

The status of the documents which are presented for information are the following:
- The idle mode procedures in S2.04. It should be noted that little progress was made in recent meetings. The document is therefore incomplete. Dependencies on SA and CN TSGs exist.
- RRC has progressed essentially by e-mail, the main changes being approved in the meeting
- The RLC model has been approved as well as the basic procedures. It has been agreed that this should provide a configurable tool box

A number of reports were continued or started:
- R2.01: Protocol methodology. Work has progressed and basic agreement is reached. Still some differences remain and the work should now put into practices
- R2.02: RRM strategies (new). Work has started, but every company is invited to contribute to this document.
- R2.03: Location Services (new). The document studied the basic radio mechanism and requirement for the support of location services. The report was completed and is submitted to TSG RAN for approval. Liaisons were sent to WG1 and WG4 on lower layers support. Also, the report was sent to SA2, and work will now be pending confirmation on the working assumptions that were taken on the stage 2 for LCS.
- R2.04: Broadcast/multicast services (new). A first version will be produced for our next meeting.
- R2.05: ODMA (new). The report will capture material necessary to understand the ODMA principles.

Some new feature were progressed since the last meeting:
- The feasibility of Hybrid ARQ from a signalling standpoint was agreed for uplink and downlink. Final mechanism will be worked in future meetings.
- Ciphering is now progressed and the choice is currently between two proposals. Work is being progressed with SA WG3
- Uplink shared channels was added for TDD

- Location/positioning services

Some open features remain in WG2:
- Uplink Shared Channels for FDD mode: some more discussions have taken place, and more work will be continued in future meetings to clarify the concepts
- CPCH concept regarding the upper layer signalling

Some open items need to be completed rapidly:
- Usage of the RACH channel, and necessary payload
- Addressing mechanism at MAC for some radio mobility messages
- Layer performing the ciphering function: MAC or RLC, or a mix
- Additional MAC procedures were identified to cover Hybrid ARQ support and also the uplink shared channel for TDD mode.
- The issue of class A GPRS service was raised, and some replies are needed from SA2 and SMG12.

Several liaisons were sent to other groups in RAN, to SA WG2, to SA WG3, and to SMG12.