Technical Specification Group, Radio Access Network
Meeting #4, Miami, 17-18 June 1999

TSGRP#3(99)306

Source: **Chairman of TSG RAN WG2**

Title: **Status report for RAN WG2**

Document for: **Approval**

Agenda Item: **5.3**

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1. List of RAN2 permanent documents and status at RAN #4

	Title	RAN number	Presented for	Status
25.301	Radio Interface Protocol Architecture	RP-99308	A	Was approved in RAN #3 3 CRs are proposed for approval to RAN #4
25.302	Services provided by the physical layer	RP-99309	A	Contents are agreed and stable, but several sections not yet finished and more work is expected before completion.
25.303	UE functions and inter-layer procedures in connected mode	RP-99310	A	Document is stable and complete.
25.303	UE procedures in Idle Mode	RP-99311	I	Document is incomplete. More work will be done based on the results of the Workshop 9-10 June 99.
25.321	MAC protocol specification	RP-99312	A	Document is stable. Document is complete except MAC peer to peer signalling which is missing, and impacting USCH (TDD only) and DSCH Control Channel
25.322	RLC protocol specification	RP-99313	I	Document is progressing. Model of RLC operation agreed. Tool-box concept agreed Definition of the Tool Box under way PDUs very advanced
25.331	RRC protocol specification	RP-99314	I	Document is progressing. Details on messages and procedures are now starting.
25.921	Guidelines and principles for protocol description and error Handling	RP-99315	I	Not many changes compared to RAN#3. Methodology discussions continue by e-mail and start to converge.
25.922	RRM strategies	RP-99316	I	Document has started but is yet very incomplete. Contributions are invited.
25.923	Location services feature	RP-99317	I	No change compared to RAN#3. Details on radio mechanisms are to be started.
25.924	ODMA	RP-99318	I	Only started.
25.925	Broadcast/Multicast services	RP-99319	I	Scope agreed. Basic service descriptions, and SMSCB principles incorporated

2. Status report on RAN WG2 activities

RAN WG2 had only one meeting since the last RAN #3. Important progress was made at this meeting, but every meeting proves very short given the ever growing number of delegates and contributions.

The work plan is still maintained for all documents to be agreed in RAN#4. Still, special attention should be spent on 25.302 which may not yet complete enough according to 3.0.0 completion standards. It is expected that the document will be finalised at the RAN2 July meeting.

Overall, the progress is good and continuous, with the meeting removing at every meeting the key areas remaining open. This means that all protocol models are now agreed and stable, with termination points, and functions for each entity. Work is more and more moving from a protocol design exercise towards the writing of the procedures and messages.

The key progress and agreements since the last RAN meeting are the following:
- Incorporation of the CPCH Transport Channel into RAN2 permanent documents. This transport channel is connected to MAC-c in a similar way as the RACH transport channel
- Model of RACH Back-off architecture agreed. The parameters controlling the cell back-off algorithm are broadcast by RRC, and RRC then configures the MAC and physical layers with these parameters to be utilised at random access. The back-off algorithm itself needs to be defined, and an e-mail discussion was started.
- Hybrid ARQ was agreed to be moved to release 00.
- USCH was agreed not to be part of release 99
- The tool which are part of the RLC tool-box concept were agreed, which formed an important milestone for RLC
- The principles for the ciphering function
- A more detailed description of the notion of Code Composite Transport Channel in 25.302
- The parameters characterising a Transport Channel in 25.302
- The protocol model for SMS Cell Broadcast was agreed
- The minimum payload size for the FDD RACH message was agreed as 20 octets.

Many liaisons statements were received from other groups. Many liaisons statements were also sent to other groups.

RAN2 intends to define mandatory/optional feature based on the concept of service capabilities. Ideally a limited set of of service capabilities (from a commercial point of view) should be defined, and optionality and mandatoriness of certain features would depend on the terminal type e.g. a speech terminal may support a limited RLC protocol, whereas a packet data terminal would support the full RLC tool-box. Support from TSG-T is expected.

Work has started on the list of measurements to be provided by the physical layer to upper layers.

It should be note that RAN2 still misses a permanent secretary, and that a revolving secretary position has been started until the situation improves. Nokia and Ericsson having already provided support, other companies are welcome for the next meeting(s).

A proposal for support for Timing Advance for TDD was made. Discussion is expected in RAN plenary.

The work on Radio Resource Management strategies is progressing slowly and more contributions are invited to complete this document.

3. List of Change Requests

3 Change Requests are submitted to Ran plenary on 25.301:
- CR 1 on the incorporation of the CPCH transport channel
- CR 2 on ciphering
- CR 3 on the principles for the random access back-off algorithm

4. Future RAN2 meetings

#5   July 5 – 9, Sophia Antipolis (host: ETSI)
#6   August 16 – 19, Sophia Antipolis (host: ETSI)
#7   September 20 – 23, Malmö (host: Telelogic)
#8   November 2 – 5, Korea
#9   December 5 – 10, no host (preferably same place as RAN meeting (Sophia Antipolis)

Further preliminary meeting dates in year 2000:
#10   week 3   (January)
#11   week 9   (February, RAN and SA meetings in week 11)
#12   week 15 (April)
#13   week 21 (May)
#14   week 27 (July)
#15   week 34 (August)
#16   week 40 (September, RAN meeting in week 38)
#17   week 46 (November, RAN meeting in week 50)