

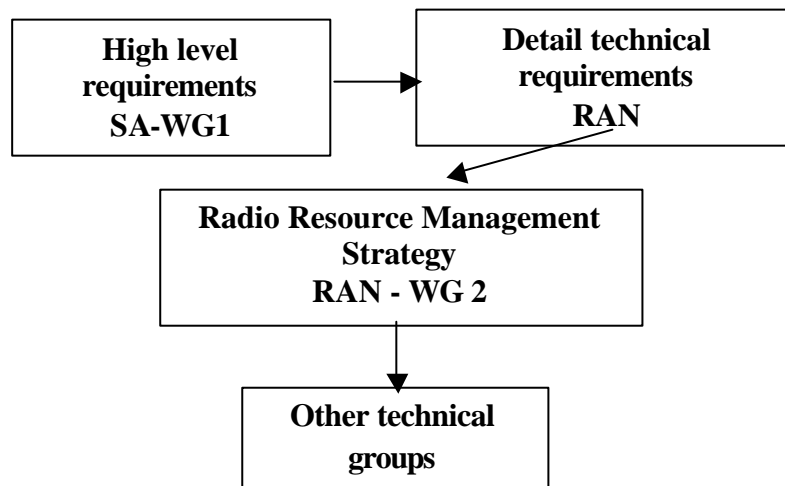
**Title:** RRM Work split between WG 2, and 4  
**Document for:** Approval  
**Source:** WG 4 Chairman

## Introduction

During the presentation of the RAN WG 4 meeting report, the work split for RRM issues between the working groups was discussed. This document attempts to explain the current situation, describe the problems and suggest a suitable solution.

## Present Situation

During RAN#2 we made the decision to follow the following process in tdoc RP-99170



Over the next 2 meetings we decided upon more detailed responsibilities between the working groups (RP-99409):-

WG 1 measurement definitions and reporting ranges and reporting granularity  
WG 2 strategies, signalling  
WG 4 Simulations, measurement accuracies.

## Problems

The whole area of radio resource management is still far from being finalised within RAN 4.

We have agreed with RAN 1 to transfer the physical layer measurement granularity specifications (25.215 and 25.225) to RAN4 where the expertise in measurement accuracy lies. This will help ensure that the actual accuracies and transported granularities are similar, except where RAN4 believes that improvements will be needed and could be achieved. Here the transported granularity will be set to reflect what we believe will be the future requirements.

The RRM analysis and requirement setting from a system and operator perspective is still unclear for a large number of RAN4 delegates. In San Diego RAN 4 discussed the likely cause of the problem, which is the fact that many of the more general RRM system requirements are covered in RAN2 specifications. There was a general consensus that progress could be faster, and RRM work of higher quality if at least the radio issues were dealt with in a single group. The suggestion was that it should at least be considered to move parts of chapter 14 of 25.331 and parts of clauses 5.2 and 5.3 in 25.304 to RAN4 specifications. This may not be exhaustive.

Having looked through chapter 14 of 25.331 and discussed this issue with a number of RAN members it appears that the confusion lies in the purpose of this section. My understanding of RAN2 is that these scenarios are defined in order to ensure that signalling in different handover cases can be fulfilled. However RAN4 simulations require far more complicated scenarios, which are more representative of real RF conditions. Some work to clarify this would be helpful.

In 25.304 the cell selection and reselection procedures are described in clauses 5.2 and 5.3. Again there seems to be a close interaction with the simulations and measurement accuracy work undergoing in RAN4. Some joint work in this area would be helpful.

Going back to the original proposal for the work progress in figure 1 above, we are still missing some essential parts of the process. The high level requirements from SA are not detailed enough to generate the core RAN specifications. These need to be elaborated to take the detailed RF scenarios into account. It would appear this has not happened and hence both RAN 2 and RAN 4 are working on their own requirements. This should be clarified. It is suggested that RAN2 specifications should identify events that trigger signalling, while RAN4 identify the radio environment that defines the event. Out of the general event definitions in RAN4 specifications a number of specific conditions could be used for the tests.

## **Proposal for future progress.**

It is apparent that some misunderstanding between the WGs has led to problems in the past, and some repetition of work in multiple WGs has not help the situation.

Given the timescales we must ensure that priority is given to this work, while maintaining progress in other areas. A way forward is suggested

- Form a joint email adhoc group for interested parties to join.
- RAN to identify an adhoc chair

- Members to send their issues and identify problems with the current specifications
- Experts from both groups to try and agree if changes are needed
- Progress to be reviewed by adhoc chair by 14<sup>th</sup> April 00
- If conclusions are not being reached then a physical adhoc will be proposed
- CRs will be generated before the next RAN4 meeting on 22 May 00 for presentation at both RAN2 and RAN4.