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Title: Feasibility Study of UE antenna efficiency test methods performance requirements-summary of methods
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0. Scope and background

During the TSGR4#13 meeting a study item was established titled “Feasibility Study of UE antenna efficiency test methods performance requirements”. This study was scheduled to be completed in June 2001. .

Three reports (TSGR4#16(01)0396, TSGR4#17(01)0630) and (TSG-R4#17(01)0656)) on the current status have been submitted as part of the feasibility study.

1. Summary

The measurement of antenna efficiency is a fairly complex task and to review this aspect a the feasibility report included a a survey of basic test parameters and test methods .

An “ideal” method giving all required parameters is possible to define but was at least with earlier test methods complicated and time consuming to perform. In most cases therefore a simplified method have been used with corresponding loss of information. With modern instrumentation it is possible to get full information within a reasonable test time

The report covers the following aspects:

- Situations where the test methods may be applied are identified and a number of parameters important in one or more of these situations have been identified.
- Classification after different types of fields around the terminal and its antenna is
- An inventory of test method principles, currently used or published, is done and mapped to situations and performance parameters described.

Contacts with ongoing similar work within CTIA (a draft 0.7 of a standard is nearly published) and within subgroup 2.2 of COST273.

The following remains to be done:

- Inventory of actually and presently used methods among UE antenna testers and developers to be made.
- Final conclusions / recommendations to be made.

2. Final report

The time schedule for the final report is to be present at the TSG-RAN4 #18 meeting in Berlin 9-13 of July.