

Status Report for WI to TSG

Work Item Name: UE Antenna Performance Evaluation Method and Requirements

SOURCE: Rapporteur

TSG: RAN

WG: 4

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Ref. to WI sheet: RP-050122.doc, TSGRP#27 (2005)

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

RAN WG4:

During RAN4#35, four documents were presented:

- an updated TR on antenna performance measurements (by COST 273);
- two contributions suggesting improvements of the measurement methods;
- a contribution discussing possible antenna performance requirements.

The updated TR is a blueprint of the original COST 273 report (R4-040612). In two contributions, Nokia suggested several improvements of the antenna measurement method: a way of reducing the time required to perform the most time consuming measurement and an alternative way of characterising the measurement chamber. These proposals may be included in a further updated report

TeliaSonera presented a first contribution on possible performance measures and requirements (second part of the WI). Numbers from several measurement campaigns at 900 and 1800 MHz were presented for discussion. Many more contributions in this area are expected at subsequent meetings.

A reflector dedicated to antenna performance will be created. Experts from COST 273 will also be invited.

List of Completed elements (for complex work items):

List of open issues:

- Performance requirements for TS 25.101
- Antenna performance in multiple bands, number of bands to consider
- Improvements of the measurement method (to be included in the TR)

Estimates of the level of completion (when possible):

35%

WI completion date review resulting from the discussion at the working group:

RAN#29 (March 2005)

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

RAN-WG4#35:

- R4-050467 Updated TR on antenna performance (Teliasonera)
- R4-050468 On the UE antenna efficiency performance requirements (Teliasonera)
- R4-050517 Full TRS test measurement time improvement (Nokia)
- R4-050518 Improved Quiet Zone measurement method for more accurate TRS and TRP measurements (Nokia)
- R4-040612 Measurements of Radio Performances for UMTS Terminals in Speech Mode (COST)