

Status Report for WI to TSG

Work Item Name: Multiple Input Multiple Output antennas (MIMO)

SOURCE: Rapporteur

TSG: RAN

WG: 1

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Ref. to WI sheet: <RP-010267>

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

The following progress has been made in the MIMO WI with RAN WG1:

- Link level channel models are being finalized. Link level simulation results have been presented for flat fading channels. Link level results for frequency selective channels will be presented once the channel model is finalized. It was agreed that the link level model and simulations would be used primarily for aligning performance of various proposals.
- System simulation methodology and system channel models have been discussed. System simulations will begin soon. The final scheme will be determined based on system simulation results.
- The following companies have so far proposed different MIMO schemes: Lucent, TI, Samsung, and Nokia.

List of open issues:

- Finalize link channel model (by the RAN1 meeting in January)
- Establish system simulation methodology (by the RAN1 meeting in February)
- Compare systems proposals based on system simulations.

Estimates of the level of completion (when possible):

- Expected completion date in RAN1 is June 2002.

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

- The MIMO technical report (TR 25.876) is given by RP-010797.