

3GPP TSG RAN Meeting #26
8th-10th December, 2004
Vouliagmeni, Greece

Way forward with MIMO work item

TSG RAN WG1 Chairman

Current status in RAN1

- SCM report + System level evaluation methodology
 - basis for the MIMO performance evaluation in RAN1
- Around 15 MIMO schemes
 - proposed for detailed evaluation in RAN1
- Plan for RAN1#40 in February
 - Two days of work anticipated to be needed to go through the MIMO proposals to be considered for evaluation
 - Either during the main RAN1 session or in a parallel session
- Current WI completion date is **March 2005**
 - RAN1 completion level is estimated to **60%** in the status report

Relation to Long Term Evolution Study item

- Most companies are in favour of MIMO for LTE
 - Very likely that MIMO will be covered during the LTE work
- Should the stand-alone MIMO WI continue then?
 - If NO
 - Move MIMO (FDD) WI to LTE study item (e.g. remove FDD components from the MIMO WI to allow TDD work to continue)
 - Re-use SCM work
 - MIMO work at RAN1#40 in February might be meaningless
 - If YES
 - Need to coordinate MIMO stand-alone work with MIMO LTE?
 - Avoid parallel tracks that would mean more work load

1. Decide to move MIMO (at least FDD) to LTE Study Item
 - + Allows to work on MIMO considering single and multi-carrier FDD
 - Need to decide on way forward with work on MIMO TDD
2. Decide that RAN1 shall continue work on stand-alone MIMO at RAN1#40 in February ignoring relation to LTE
 - Risk that most of the time spent is meaningless in case MIMO would be merged with LTE work later
 - + Not delaying current stand-alone MIMO
3. Decide to put RAN1 work on MIMO on hold for one more quarter and review the situation at RAN#27
 - + Avoids spending time at RAN1#40 on an issues the risk to re-discuss them with a modified scope due to LTE
 - Delays work on current stand-alone MIMO
 - + Allows time for RAN to take a conscious decision on way forward with the MIMO work item