

Status Report for WI to TSG

Work Item Name: MIMO in UTRA

SOURCE: Rapporteur

TSG: RAN

WG: 1

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Ref. to WI sheet: RAN_Work_Items.doc

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

RAN WG1 #37 in Montreal:

- The updated MIMO TR [1] from the previous meeting was approved.
- Text proposals agreed in principle in the previous meeting in Malaga were officially accepted into the TR. Text proposal accepted into the TR:
 - o Closed Loop MIMO with 4 Tx and 2 Rx antennas
 - o Double TxAA
 - o Per-User Unitary Rate Control (PU²RC)
 - o Code Domain Successive Interference Cancellation (CD-SIC) V-BLAST with Transmit Power Ratio Control (TPRC)
 - o Selective Per Antenna Rate Control
- Few contributions on system simulation setup and another on backward compatibility and simulation methodology were discussed. No agreement was reached with continuing discussions till next meeting.
- Few more contributions were not discussed due to lack of time.

RAN WG2:

The WI has not been treated yet.

RAN WG3:

The WI has not been treated yet.

RAN WG4:

The WI was not treated.

List of completed elements:

- Requirements
- Link level channel model
- System level channel model

List of open issues:

- System level simulation methodology
- Evaluation of MIMO proposals
- Impacts to UE and UTRAN implementation.
- Impacts to physical layer operation.
- Conclusion

Estimates of the level of completion (when possible):

55%

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

12/2004 (TSG-RAN#25)

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

[1] R1-040603, MIMO Rapporteur, MIMO TR 25.876 v1.3.1