

Status Report for SI to TSG

Study Item Name: "Radio Link Performance Enhancements "

SOURCE: Nokia (Antti Toskala)

TSG: RAN

E-mail address rapporteur: antti.toskala@nokia.com

Ref. to WI sheet: [RAN_Work_Items.doc](#)

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

1. Several 4-Tx-diversity concepts studied
2. Discussion about channel (correlation) models initialised, but the real discussions about the issue still needed.
3. Also, some general analysis comparing different schemas were presented; no commonly agreed conclusion yet.
4. Since of 2) & 3) only description of schemas (by proponents) are presented in Tx-diversity TR (TSGR1#(24)0518) - no common agreement in performance results, thus not provided for TSG RAN at this stage.
5. No conclusion yet from WG1

List of Completed elements (for complex work items):

- Description of studied schemas

List of open issues:

- Channel (correlation) model.
- Evaluation of presented pilot schemas + conclusion.
- Reviewed performance results.
- Impacts to UE and UTRAN implementation.
- Impacts to physical layer operation.
- Complete "backwards compatibility to R99/R4" considerations.
- Evaluation of described schemas (comparing of different techniques).
- Conclusion

Estimates of the level of completion (when possible):

- Basic techniques are introduced.

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

- TR to be presented for approval for TSG RAN#17.

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

- TSGR1#(24)0518