

## Status Report for SI to TSG

### **Agenda Item: 8.7.1**

**Study Item Name:** "Radio Link Performance Enhancements "

**SOURCE:** Rapporteur

**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. Discussion about channel (correlation) models continued, a proposal for adopting an intermediate version of MIMO link level channel models with assuming only one antenna at the UE was proposed in RAN WG1#27. There were requests to adopt the full MIMO link level channel models, and a contribution was prepared on that basis to RAN WG1#28. However, it was not discussed.
2. No conclusion yet from WG1 on channel models
3. No update on the TR was made.
4. Some companies have been proposing Tx diversity schemes with 2 antennas, whereas the TR is focused on > 2 Tx antennas.

### **List of Completed elements (for complex work items):**

- o Description of studied schemes

### **List of open issues:**

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

### **Estimates of the level of completion (when possible):**

- o Basic techniques are introduced.

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

- o TR was expected to be presented for approval for TSG RAN#17 but this should be postponed till TSG RAN#18.

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

- o TSGR1#(24)0518