

Status Report for SI to TSG

**Agenda Item: 8.10.1**

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

**SOURCE:** Rapporteur

**TSG:** RAN

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**Ref. to WI sheet:** RAN\_Study\_Items.doc

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

**HSDPA enhancements (TR25.899)**

At RAN#24 it was agreed that this Study Item was to be kept open only to address the concerns on coverage gains and complexity of PRE/POST ACK/NACK which were raised during the discussion of the work item proposal at RAN#24.

Two (2) input contributions were handled during RAN WG1#38 meeting. These addressed the complexity of PRE/POST ACK/NACK, with the version approved over email in [1], and expected coverage improvement from this technique, with the version approved over email in [2]. The mentioned two text proposals to TR25.899 were agreed in principle in the WG1 meeting, and CRs were provided for e-mail approval after WG1#38 meeting and were approved after minor modifications based on the comments received.

With these changes in TR25.899, TSG RAN WG1 has completed the remaining work on ACK/NACK enhancement.

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

**HSDPA enhancements**

- PRE/POST ACK/NACK complexity and coverage aspects addressed

**List of open issues:**

**HSDPA enhancements**

- None

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

100%

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

09/2004

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

[1] Implementation complexity of ACK/NACK performance improvement, R1-041056

[2] Effect of PRE/POST scheme on HSDPA cell coverage, R1-041055

[3] TR25.899 V1.0.0 "HSDPA enhancements", RP-040222