Agenda item: **8.11.8**
Title: **Status Report for SI on Uplink enhancements for UTRA TDD**
Source: **Rapporteur**

Status Report for SI for TSG RAN

Study Item Name: Uplink enhancements for UTRA TDD

SOURCE: Rapporteur (Marian Rudolf / InterDigital)   **TSG:** RAN   **WG**: 1

E-mail address rapporteur: marian.rudolf@interdigital.com

Ref. to SI sheet: `ftp://ftp.3gpp.org/tsg_ran/TSG_RAN/Work_Item_sheets/`

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

During RAN1#34 and #35, 14 contributions overall were submitted on R6 TDD UL Enhancements. The majority of contributions (9) received so far concentrated on reference techniques in earlier releases. 3 contributions contained text proposals on possible candidate enhancement techniques, 2 on HARQ and 1 on improvements for RACH.

Unfortunately, only 1 minor text proposal on references and abbreviations was approved so far for inclusion into the TR. No conclusion could be reached yet on any of the text proposals for reference techniques in earlier releases or on candidate enhancement techniques.

Contributions and text proposals were submitted for all areas of reference techniques in earlier releases in the TR:

- Allocation of Dedicated Resources (R1-030974/1252 and 1377)
- Allocation of Shared Resources (R1-031064 and 1291)
- Uplink TFCS Management with RRC Signalling (R1-030975 and 1253)
- Transport Format Combination Selection in the UE (R1-030976 and 1254)

Contributions proposing candidate enhancement techniques were received in the areas of:

- Hybrid ARQ (R1-030977 and 1255)
- Enhancements to RACH (R1-031065)

The work on TTD UL Enhancements is expected to continue during RAN1#36.

List of Completed elements (for complex work items):

?? 	None

List of open issues:

- Detailed descriptions of the techniques to be studied
- Compatibility of the enhancements with the existing system
- Interaction of the enhancement techniques
- Simulation results of the enhancement techniques
- Complexity analysis of the enhancements
- Feasibility study conclusion and recommendations for work item

Estimates of the level of completion (when possible):   5 %

SI completion date: RAN #25 (September 2004)

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

R1-030940 "3GPP TR 25.804 V0.0.1 (2003-09) Feasibility Study on Uplink Enhancements for UTRA TDD; (Release 6)"