Status Report for WI to TSG

Work Item Name: 3.84Mcps TDD Enhanced Uplink

SOURCE: Rapporteur (Nicholas Anderson, IPWireless) **TSG:** RAN **WG:** 1,2,3,4

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Ref. to WI sheet: RAN_Work_Items.doc

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

WG1

RAN WG1 #40bis
A draft outline for the RAN WG1 TR on "Physical Layer Aspects" was presented and approved (Tdoc R1-050331).

RAN WG1 #41
A discussion document (R1-050457) on Uplink Signalling Architecture was presented along with an accompanying text proposal (R1-050458) for the RAN WG1 TR (25.826). The text was approved but it was noted that this may require subsequent modification depending upon agreements in RAN WG2.
Two further text proposals were submitted:
- R1-050460: basic physical channel structure for uplink data
- R1-050461: support for Node-B scheduling

Both text proposals were agreed for inclusion in the TR.

WG2

RAN WG2 #46bis
A proposed Stage 2 TS with substantial content was presented based on TS 25.309 FDD Enhanced Uplink; Overall Description; Stage 2. The text proposed follows a similar overall protocol architecture to FDD E-DCH. This text proposal was endorsed. However, RAN WG2 recommends that all agreed 3.84 Mcps TDD Enhanced Uplink proposals are captured in a RAN WG2 TR which would then be used to generate a CR to 25.309. Thus, a Stage 2 TS covering both FDD and 3.84 Mcps TDD Enhanced Uplink would be created.

RAN WG2 #47
A discussion document and an accompanying text proposal (R2-051272) on Uplink Signalling Architecture (for sending Scheduling Information) were presented. These proposals outlined some areas in which the transport channel structure for uplink signalling differed from FDD E-DCH (to accommodate TDD-specific needs). These proposals were not agreed, although the need for some differences from FDD E-DCH is accepted.

WG3

RAN WG3 #47
Skeleton of RAN 3 internal report R3-017 approved.
Input describing protocol architecture and frame protocol impacts were discussed and agreed.

WG4

RAN WG4 #36
No input.

Completed Items:

RAN WG1
- Outline TR created
- Some agreements on basic physical channel structure (pending RAN WG2 decisions)
- Support for Node-B scheduling

RAN WG2
- Draft TS created (may be used to form TR as per above discussion)
- High level protocol architecture
- E-DCH transport channel attributes
- MAC architecture
- Principles of Node-B controlled scheduling

RAN WG3
- Outline internal report created

RAN WG4
- WI not started

Open Issues:

RAN WG1
- Basic Physical layer structure (to be agreed with RAN WG2)
- H-ARQ and signalling for H-ARQ
- Downlink signalling
    - Physical channel structure
    - Coding and multiplexing
- Uplink signalling
    - Physical channel structure
    - Coding and multiplexing
- Spreading and modulation
- Physical layer procedures
- Physical layer measurements
- UE capabilities

RAN WG2
- Basic physical structure (UL&DL)
- Details of H-ARQ protocol and associated uplink signalling
- Details of Node-B controlled scheduling
- Details of UE scheduling operation (Scheduling Information)
- Details of QoS control
- Signalling parameters (UL&DL)
- Mobility procedures

RAN WG3
- None identified

RAN WG4
- None identified

Estimated Level of Completion:

RAN WG1: 10%
RAN WG2: 15%
RAN WG3: 5%
RAN WG4: 0%

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

Layer 2 and 3 Protocol Aspects – RAN #31 (March 2006)
UTRAN Iub/Iur Protocol Aspects – RAN #31 (March 2006)
RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing – RAN #32 (June 2006)

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