TSG-RAN Meeting #22 **RP-030567**
Maui, USA, 9 -12 December 2003

Agenda item: 8.2.4
Title: Status report for WI 'Remote Control of Electrical Tilting Antennas'
Source: RAN WG3

Status Report for WI for TSG RAN

Work Item Name: 'Remote Control of Electrical Tilting Antennas' (RANimp-TiltAnt)

SOURCE: Rapporteur (Andreas Hauser, Vodafone Group) **TSG:** RAN **WG**: 3

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

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

RAN3#38:

- A solution for the introduction of RET Antenna Control into the existing UTRAN architecture was agreed to be included into section 6.1 UTRAN Architecture Aspects of the Study Area of TR 25.802. (R3-031352)
- A LS Reply to LS on RAN Work Item "Control of Remote Electrical Tilting Antenna" and possible impact on SA5 in R3-031247 was received from SA5. RAN3 was asked to provide a response to five questions raised in the LS in order to provide SA5 the needed information to complete their work on RET control. (R3-031463)

RAN3#39:

- Rapporteur's update of TR 25.802 with the agreed input from RAN3#38 was agreed to become version v0.3.0 of TR 25.802 available in R3-031849 (R3-031708)
- A Reply LS was sent back to SA5 with answers to the questions raised by SA5 in their LS to RAN3 in R3-031463 providing the needed information to continue their study on RET control in SA5. (R3-031756)
- A LS Reply to the LS from RAN3 to SA5 in R3-031756 was received from SA5. RAN3 was asked whether there are additional UTRAN cell parameters that need to be managed for RET purposes when tilt adjustments are made and how error scenarios should be handled when there is a set of RET adjustments. Furthermore, SA5 asked RAN3 to consider joint NetMeeting/telephone conference calls and a physical meeting in Malaga, Spain in February 2004 to progress the RET work. (R3-031822)
- Two additional requirements regarding the transport protocol stack of the RET antenna control interface and the re-use of the implementation specific O&M transport for the network wide control of RET antennas were agreed to be included into the Requirement sections 5.3 and 5.4 of TR 25.802. Version 0.3.1 of TR 25.802 in R3-031851 includes these new requirements. (R3-031701)

- Two layer 1 options (i.e. RS485 and coaxial cable), a subset of HDLC commands for the signalling transport and protocol stacks for the internal Node B interface Iuant described in section 6.1 of the TR were proposed to be included into sections 6.2 and 6.4 of TR 25.802. Due to the very detailed nature of the proposed text and the needed offline check it was "in principle agreed" to include the proposed text into the TR. In particular the level of detail of the proposed input for the TR was agreed and comments have to be raised at the RAN3 reflector or directly towards the rapporteur until the next meeting RAN3#40 in January 2004. (R3-031710)

List of Completed elements (for complex work items):

- Definition of Requirements

List of open issues:

- Final decision on the introduction of RET antennas into the UTRAN Architecture
- Further input for Study Area (e.g. on Application Part and functions of the interface)
- Clarification of SA5's work on Itf-N for network wide control of RET antennas (e.g. identification of additional UTRAN cell parameters to be signalled over Itf-N, handling of error scenarios for a set of RET adjustments and analysis of the performance data collecting interval for a potentially optimisation of the network depending on the traffic situation with daily RET adjustments)
- Agreement on the final solution, preparing of the needed CRs to existing specifications and preparing of new specifications

Estimates of the level of completion (when possible): 30 %

WI completion date review resulting from the discussion at RAN WG3: RAN#23

References to WG's internal documentation and/or TRs:
R3-031849 TR 25.802 v0.3.0 Remote Control of Electrical Tilting Antennas