

RAN 4 Report

RP-050179

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RAN 4 Chairman

Summary

- **1 Adhoc meeting on EUL and MBMS**
- **1 RAN WG4 meeting since last RAN meeting**
- **4 telephone conference calls on EUL and spectrum issues**
- **Slight increase in number of delegates (around 90)**
- **320 input contributions, 25% increase**
- **Corrections to the specification (cat B & F numbers)**
 - **Release 99 - 2 CRs**
 - **Release 4 - 0 CRs**
 - **Release 5 - 17 CRs – 13 feature cleanup**
 - **Release 6 - 18 CRs**
 - **Release 7 - 10 CRs**
- **There will be one WG meeting before the next plenary.**

R99 – Rel-5 Highlights

R99

- **2 Approved CRs**
- **Both to 25.133 and related to problems in testing**
 - **Removing of event triggered reporting testcase in fading A.8.1.4**
 - **Removal of UTRA carrier RSSI relative accuracy testcase**
 - **Effort spent to co-ordinate with RAN5**
 - **LS sent to RAN5 to remove test annexes from TS25.133**

Rel 5

- **4 Approved CRs + Feature Cleanup**
 - **Clarification to HS-DPCCH time mask requirements**
 - **Correction of parameters for HSDPA fixed reference channel test**
 - **Correction of parameters for TDD 1.28 Mcps HSDPA fixed and variable reference channel tests**
 - **UE transmitted power measurement report mapping.**
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Feature removal

- **All CRs on features agreed by RAN to be removed from RAN 4 specs approved**
 - **25.101 410 Rel-5 Feature Clean Up: Removal of dedicated pilot as sole phase reference**
 - **25.101 412 Rel-5 Feature Clean Up: Removal of SSdT**
 - **25.101 414 Rel-5 Feature Clean Up: Removal of CPCH**
 - **25.101 416 Rel-5 Feature Clean Up: Removal of Tx diversity closed loop mode2**
 - **25.101 418 Rel-5 Feature Clean Up: Removal of Compressed mode by puncturing**
 - **25.104 233 Rel-5 Feature Clean Up: Removal of CPCH**
 - **25.104 235 Rel-5 Feature Clean Up: Removal of SSdT**
 - **25.133 748 Rel-5 Feature Clean Up: Removal of Observed time difference to GSM cell**
 - **25.133 750 Rel-5 Feature Clean Up: Removal of Compressed mode by puncturing**
 - **25.133 752 Rel-5 Feature Clean Up: Removal of CPCH**
 - **25.133 754 Rel-5 Feature Clean Up: Removal of dedicated pilot as sole phase reference**
 - **25.141 366 Rel-5 Feature Clean Up: Removal of CPCH**
 - **25.141 368 Rel-5 Feature Clean Up: Removal of SSdT**

Rel-6 TEI Highlights

- **Becoming the largest work item in terms of meeting time**
 - Correction of error in the implementation of CR 368 (in R4-040779) to 25.101
 - Addition of DL power control response time
 - New requirements Fast L1 Sync
 - New requirements Timing-maintained hard handover
 - Definition of the Reference Cell in case of initial Macro Diversity allocation
 - Alignment of Requirements for Inter Frequency Cell Identification Test Case
 - Correction of CPICH RSCP absolute accuracy condition
 - PRACH Burst timing Accuracy
 - Clarification of Test requirements on FDD/FDD Soft Handover test
 - Correction of CPICH_RSCP Intra frequency absolute measurement accuracy side conditions for Band III
 - Correction of spectrum mask requirements for Bands I and III
 - Correction for the description of HS-DPCCH requirements
 - Correction of receiver exclusion bands

Work and Study Items

WI Name	WI Code	%	Finish Date
Improved Minimum Performance Requirements for HSDPA UE categories 7 and 8	RInImp-HSPerf-10code	90	June 2005
UE Performance Requirements for MBMS	MBMS-RAN-RF	40	September 2005
UE Performance Requirements for MBMS (TDD)	MBMS-RAN-RF-TDD	0	March 2006
FDD Enhanced Uplink - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing	EDCH-RF	60	Sept 2005
UMTS 2.6 GHz FDD	RInImp-UMTS2600	100	June 2005
UMTS 2.6 GHz TDD	RInImp-UMTS2600TDD	35	December 2005
UMTS 900 MHz	RInImp-UMTS900	30	December 2005
UE Antenna Performance Evaluation Method and Requirements	RInImp-UEAnt	35	March 2006
MIMO - RF Radio Transmission/Reception, System Performance Requirements and Conformance Testing	MIMO-RF	5	December 2005
7.68Mcps TDD option: RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing	VHCRTDD-RF	35	March 2006
3.84 Mcps TDD Enhanced Uplink: RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing	EDCHTDD-RF	0	June 2006
Performance Evaluation of the UE behaviour in high speed trains with speeds up to 350 kmph		5	December 2005

Highlights

- **MIMO**
 - On hold – need RAN decision on this work item
- **Improved Receiver Performance Requirements for HSDPA**
 - Improved Minimum Performance Requirements for HSDPA UE categories 7 and 8 – work completed apart from closed loop case
 - Simulation work coming to a close
 - Expect completion at next RAN 4 meeting
- **High Speed Uplink Packet Access**
 - Work continues
 - Most simulation assumptions agree and alignment work complete
 - Long discussion on active set size, indication showed mixed support for 3 – 6. If agreement not found at next RAN 4 meeting I will request a RAN vote
- **New frequency bands**
 - **FDD - 2.6 GHz**
 - Complete
 - **TDD - 2.6 GHz**
 - Progressing
 - **FDD - 900 MHz**
 - Scenarios agreed

Highlights

- **UE Performance Requirements for MBMS**
 - Many simulation assumptions agreed
 - Simulation work under way
- **UE Performance Requirements for MBMS (TDD)**
 - No contributions
- **7.68Mcps TDD option**
 - Work progressing
- **3.84 Mcps TDD Enhanced Uplink**
 - No contributions
- **UE Antenna Performance Evaluation Method and Requirements**
 - TR approved
 - Additional text on test time reduction and quiet zones proposed
 - Reflector to set up to include COST and other antenna experts
- **Work Items under other WG responsibility**
 - Inclusion of Uplink TDOA UE positioning method in the UTRAN specifications
 - Work started - 1 contribution
 - Remote Control of Electrical Tilting Antennas
 - CRs agreed and passed to RAN 3 for approval
 - Fractional DPCH
 - one Cr approved , first simulations results provided by several companies and further discussions regarding the DL power control test

Chairman's comments

- **There is an increasing trend to involve RAN 4 at a late stage in discussions**
 - E.g HSUPA RoT measurements
 - RAN 2 made early assumptions on the use of the measurement before RAN 4 could inform them it can not be measured accurately enough to be used
 - Many hours of RAN 1 and RAN 2 meeting time wasted
 - RAN 1 and 2 still discussing the UE power reporting measurement, RAN 4 only just informed
 - I think it is time to look at TOR for RRM measurements again
- **Simulation back office support**
 - Another increasing trend to bring TEI papers in that require companies to investigate via simulation
 - Current approved work items already stress the simulation experts
 - Currently +30 simulations identified. This will need to be prioritized
- **LTE work**
 - Need to progress issues on LTE related to RAN4 expertise
- **RAN5 co-ordination**
 - Good progress and co-ordination with RAN5 experts to address RAN5 request for clarification

Future Meetings

- 35 - 09-13 May 2005 Athens, Greece
- 28 - 1 - 3 June 2005 Quebec, Canada
- 36 - 29 Aug - 02 Sept 2005 London, UK
- 29 - 21 - 23 September 2005 Tallinn, Estonia
- 37 - 07-11 November 2005 TBD, Korea
- 30 - 30 Nov. - 2 Dec. 2005 Europe (TBC)