

Kansas City, USA, 5 – 9 May, 2008

Agenda item 3

Title: **Final Report of 3GPP TSG RAN WG1 #53 v1.0.0**
(Kansas City, USA, 5 – 9 May, 2008)

Document for: **Approval**

Source: **MCC Support**



Fact Summary

Meeting: **3GPP TSG RAN WG1 #53**

Dates: **5th through 9th May, 2008**

Venue: **Kansas City Marriott Downtown, Missouri - USA**

Host: **North American Friends of 3GPP**

Attendees: **174 delegates**

Documents: **561 (including some withdrawn and post-meeting artefacts)**

Patrick Mérias
ETSI Mobile Competence Center
F-06921 Sophia Antipolis Cedex
Tel: +33 4 92 94 42 06

Patrick.merias@etsi.org

Table of contents

Executive summary	3
1. Opening of the meeting	5
1.1 Call for IPR	5
2. Approval of the agenda.....	5
3. Approval of the minutes from previous meeting	5
4. Liaison statement handling	6
5. Maintenance of UTRA Release 99 – Release 8	11
6. Study Item on LTE-Advanced	14
6.1 Review of LTE-Advanced Requirements	14
6.2 Discussion on Physical Layer Aspects LTE-Advanced Proposals	17
7. Maintenance of Evolved UTRA and UTRAN	23
7.1 Corrections for TS 36.211	23
7.1.1 Downlink Control Signaling	23
7.1.2 Uplink Control Signalling.....	29
7.1.3 Other remaining issues for TS 36.211	33
7.1.4 Possible vote on removal of small delay CDD and eNodeB antenna selection	43
7.2 Corrections for TS 36.212	44
7.3 Corrections for TS 36.213	47
7.3.1 Timing synchronization	47
7.3.2 Inter-cell Interference Coordination.....	47
7.3.3 UE Procedures for downlink shared channel	49
7.3.4 Other remaining issues for TS 36.213.....	51
7.4 Corrections for TS 36.214	53
7.5 Corrections for TS 36.306	54
8 Enhanced Uplink for CELL_FACH State in FDD	56
9 HS-PDSCH serving cell change enhancements.....	60
10 Study Item on Dual-Cell HSDPA Operation.....	61
11. 64QAM for 1.28 Mcps TDD HSDPA	64
12 Enhanced CELL_FACH state in 1.28 Mcps TDD (UL/DL)	64
13 Continuous Connectivity for packet data users for 1.28Mcps TDD	64
14 Study Item on Scope of future HSPA Evolution for 1.28Mcps TDD	64
15 Closing of the meeting	65
Annex A: List of participants at RAN1#53.....	66
Annex B: TSG RAN WG1 meetings in 2008	67
Annex C: List of CRs agreed at RAN1#53.....	68
Annex D: List of Outgoing LSs from RAN1#53	72
Annex E: List of Tdocs at RAN1 #53	74
Annex F: List of actions	75

Executive summary

3GPP TSG WG RAN1 #53 meeting took place at Marriott Downtown hotel in Kansas City, USA.

The meeting started at 9:10 on Monday 5th May and finished at 17:10 on Friday 9th May 2008.

The week was scheduled as follows:

- Monday: Common session on Agenda items 1, 2, 3, 6.1 and 6.2.
- Tuesday morning: Early session chaired by Juho Lee on AI 7.1.1. Common session on AI 4. Discussion on LTE-Advanced Requirements chaired by Takehiro Nakamura in parallel with AI 5 chaired by Dirk Gerstenberger.
- Tuesday afternoon: Agenda items 4, 7.1.1, 7.1.2 and 7.1.4.
- Wednesday: HSPA FDD (AI 8, 9 and 10) + HSPA TDD (AI 13 and 14) chaired by Dirk Gerstenberger. Channel coding (AI 7.2), UE categories (AI 7.5) chaired by Sadayuki Abeta. CQI (AI 7.3.3) chaired by Juho Lee.
- Thursday: parallel sessions in the morning on AI 7.1.3 followed by AI 7.1.2 and 7.3.4
- Friday morning: Agenda items 7.3.1, 7.4 and 7.3.2.
- Friday afternoon: Revisions

The list of action points that required RAN1 close follow-up is listed in Annex F (end of document).

The number of contribution documents for this meeting was 540, and those documents were categorized as followed.

Agenda Item	Input Document	Discussed Document
Liaison statement handling	32	25
Maintenance of UTRA R99 – Rel8	21	21
Maintenance of Evolved UTRA and UTRAN	394	145
Study item on LTE-Advanced	43	40
Enhanced Uplink for CELL_FACH State in FDD	20	20
HS-PDSCH serving cell change enhancements	5	5
Study item on Dual-Cell HSDPA Operation	19	19
64QAM for 1.28Mcps TDD HSDPA	0	
Enhanced CELL_FACH in 1.28Mcps TDD (UL/DL)	0	
Continuous Connectivity for Packet Data users for 1.28Mcps TDD	1	1
Study Item on Scope of future HSPA Evolution for 1.28Mcps TDD	5	5

The following set of documents is missing. The corresponding contributions have not been handed over by companies.

R1-081772	Modification of Cyclic Shift Hopping for CQI	ZTE
R1-082038	Search space design for PDCCH blind decoding	Philips, NXP
R1-082040	Distributed Resource Allocation Signalling on PDCCH	Philips, NXP
R1-082132	DTX Detection Performance of ACK/NACK on PUSCH	Ericsson

1. Opening of the meeting

Mr. Dirk Gerstenberger (RAN1 Chairman) welcomed the participants to the 53 RAN WG1 meeting and opened the meeting at 09:10.

Mr. Sharat Chander from AT&T welcomed the delegates on behalf of the North American Friends of 3GPP.

1.1 Call for IPR

The Chairman drew attention to Members' obligations under the 3GPP Partner Organizations' IPR policies. Every Individual Member organization is obliged to declare to the Partner Organization or Organizations of which it is a member any IPR owned by the Individual Member or any other organization which is or is likely to become essential to the work of 3GPP.

The attention of the members of this Technical Specification Group is drawn to the fact **that 3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners to **inform their respective Organizational Partners of Essential IPRs they become aware of.**

The members take note that they are hereby invited:

- to investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of the Technical Specification Group.
- to notify the Director-General, or the Chairman of their **respective** Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms (e.g. see the ETSI IPR forms <http://webapp.etsi.org/lpr/>).

2. Approval of the agenda

R1-081710	Draft Agenda for RAN1#53 meeting	RAN1 Chairman	
-----------	----------------------------------	---------------	--

Dirk Gerstenberger (Chairman) proposed the agenda for the meeting. Focus of first day is to discuss the LTE Advanced topic and Mr. Chairman asked kindly company to concentrate on fixed time for presentation and questions (10 – 15 minutes).

Discussion (Question / Comment):

Decision: The agenda was approved.

3. Approval of the minutes from previous meeting

R1-081711	Final report of RAN1#52bis meeting	MCC Support	
-----------	------------------------------------	-------------	--

The document was presented by Patrick Mérias.

Discussion (Question / Comment):

Decision: The document is noted and approved.

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.