

EXHIBIT 1022

**3GPP TSG RAN WG1 Meeting #44bis
Athens, Greece, 27 – 31 March, 2006**

R1-061099

Agenda item 3
Title: Approved Report of 3GPP TSG RAN WG1 #44 meeting
Document for: Information
Source: RAN1 Secretary



Notes: All timestamps in this document are in GMT-7H unless otherwise noted.

Fact Summary

Meeting: 3GPP TSG RAN WG1 #44 Meeting
Dates: 13th through 17th February, 2006
Venue: Hyatt Regency Denver, Colorado, USA
Host: North American Friends of 3GPP
Attendees: 183 delegates
Documents: 494 (including some withdrawn and post-meeting artefacts)

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Table of contents

Executive summary	1
1. Opening of the meeting	2
1.1 Call for IPR	2
2 Approval of the agenda.....	2
3. Approval of the minutes from the previous meetings.....	2
4. Report from TSG RAN#30 and RAN1 LTE Ad Hoc.....	4
5. Liaison statement handling	5
6. Maintenance of R99, Rel4, Rel5, Rel6.....	8
6.1 R99 CRs + shadow CRs	8
6.2 Rel4 CRs + shadow CRs	8
6.3 Rel5 CRs + shadow CRs	8
6.4 Rel6 CRs.....	8
6.5 Other.....	9
7. 3.84 Mcps TDD Enhanced Uplink.....	12
8. 7.68 Mcps TDD Option	13
9. MIMO in UTRA (Rel'7 Work Item)	15
10. Continuous Connectivity for Packet Data Users.....	18
11. Improved support of gaming over HSPA.....	22
12. Improvements of MBMS	23
13. Evolved UTRA and UTRAN (Physical Layer).....	24
13.1 Description of OFDMA Downlink used in the concept evaluation.....	25
13.1.1 Contributions reflecting results from email reflector discussions	26
13.1.2 Downlink MIMO Scheme used in the concept evaluation.....	26
13.1.3 Remaining downlink issues from the January Ad Hoc on LTE that need to be resolved	29
13.2 Description of SC-FDMA Uplink used in the concept evaluation.....	38
13.2.1 Contributions reflecting results from email reflector discussions	38
13.2.2 Basic Transmission Scheme	38
13.2.3 Physical Layer Procedures.....	44
13.2.4 Physical Layer Measurements.....	50
13.2.5 Downlink related UE Capability	50
14. RAN1/RAN3 Joint session on RRM for LTE.....	52
15. Other business	54
16. Closing of the meeting	55
Annex A: List of participants at RAN1 #44	56
Annex B: TSG RAN WG1 meetings in 2006	62
Annex C: List of CRs agreed at RAN1#44.....	63
Annex D: List of Outgoing LSs.....	64
Annex E: List of Tdocs at RAN1 #44	65
Annex F: List of actions (E-mail Approval)	96

Executive summary

RAN WG1#44 meeting took place in Hyatt Regency Hotel in Denver, USA. The meeting started at 9:05 on Monday 13th February and finished at 17:05 on Friday 17th February.

On the first day, after treating incoming LS and some Rel-5 and Rel-6 CRs, the documents for Rel-7 TDD topics such as 3.84 Mcps TDD Enhanced Uplink and 7.68Mcps TDD Option were treated and the set of CRs to RAN1 core specs on 7.68 Mcps option were agreed.

Further proposals, comparisons and details of concepts for the WI Continuous Connectivity for Packet Data Users were discussed on Monday and Friday, and as a results 14 text proposal (1 after email approval) for TR 25.903 were agreed. As for MIMO for UTRA (Rel-7 WI), two different proposed schemes were discussed for the selection of evaluation scheme and as a conclusion RAN1 chairman decided to report the RAN1 situation on the selection of the evaluation scheme to the RAN plenary and recommend to select PARC for the further evaluation.

LTE session started from the morning on the second day, 14th February. In this meeting there were more than 330 contributions for LTE topics so that a lot of contributions were not treated due to lack of time. Some topics not treated in this meeting would be discussed on the RAN1 reflector until the next meeting. MIMO for LTE was discussed at MIMO Ad hoc session parallel to the main session on Tuesday and Wednesday. As the results of LTE discussion, 30 text proposals including the texts for email approval after the meeting were agreed to be included in TR25.814. As for LTE topics, in addition to RAN1 discussion, RAN1/RAN3 joint session on RRM for LTE was held on Wednesday evening and the short report is shown in section 14 on this minutes.

The number of contributions for this meeting was 471 (without withdrawn contributions), and those documents were categorized as followed.

Agenda Item	Input Document	Discussed Document
Liaison Statement	33	32
Maintenance of R99, Rel4, Rel5, Rel6 and other	21	21
3.84 Mcps TDD Enhanced Uplink	3	3
7.68 Mcps TDD Option	14	14
MIMO in UTRA	13	12
Continuous Connectivity for Packet Data Users	36	36
Improved support of gaming over HSPA	0	0
Improvements of MBMS	0	0
Evolved UTRA and UTRAN (Physical Layer)	8	8
Evolved UTRA and UTRAN (Physical Layer): Downlink	187	85
Evolved UTRA and UTRAN (Physical Layer): Uplink	156	89

1. Opening of the meeting

13/02/2006 09:05

RAN1 Chairman, Mr. Dirk Gerstenberger and welcomed the participants to the RAN WG1 LTE Ad Hoc meeting and opened the meeting at 09.05.

Mr. Sharat Chander from Cingular Wireless welcomed the delegates on behalf of the North American Friends of 3GPP.

1.1 Call for IPR

13/02/2006 09:05

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

R1-060270 Draft Agenda

(RAN1 Chairman)

13/02/2006 09:10 Presented by Mr. Dirk Gerstenberger.

Discussion (Question / Comment):

Mr. RAN1 Chairman explained the scheduling during this meeting. Non-LTE will be discussed in Monday and LTE will start from Tuesday. We start the interference mitigation topic and then UP link topics. For downlink topics, we will treat the topics and documents useful for the other WGs such as interference mitigation, UE capability, cell search, measurement. MIMO Rel-7 will be treated in the evening of Tuesday.

On Thursday evening, joint session with RAN3 will be held, the topics is the signalling and so on.

Decision: This draft agenda was approved without any comments.

3. Approval of the minutes from the previous meetings

R1-060272 Draft Report from RAN1#43 Meeting

(RAN1 Secretary)

13/02/2006 09:15 Presented by Mr. Yoshikazu Ishii.

Discussion (Question / Comment):

Decision: This draft report was approved in R1-050755.

R1-060755 Approved Report from RAN1#43 Meeting

(RAN1 Secretary)

R1-060273 Draft Report from RAN1 LTE Ad Hoc Meeting

(RAN1 Secretary)

13/02/2006 09:15 Presented by Mr. Yoshikazu Ishii.

Discussion (Question / Comment):

Decision: This draft report was approved in R1-050756
R1-060756 Approved Report from RAN1 LTE Ad Hoc Meeting

(RAN1 Secretary)

4. Report from TSG RAN#30 and RAN1 LTE Ad Hoc

R1-060271 **Report from TSG RAN#30 and RAN1 LTE Ad Hoc** **(RAN1 Chairman)**

13/02/2006 09:20 Presented by Mr. Dirk Gerstenberger.

Discussion (Question / Comment):

Decision: This document was noted.

5. Liaison statement handling

- R1-060274 LS on Reference RAB Configurations for MBMS (To: RAN1)**
(RAN WG2, Qualcomm)
13/02/2006 09:25 Presented by Mr. Serge Willenegger from Qualcomm Europe
Discussion (Question / Comment):
Decision: This document was noted. It was decided to prepare the draft LS in R1-060675 (Qualcomm)
- R1-060675 Reply to LS on Reference RAB Configurations for MBMS (R2-053142)**
(Qualcomm Europe)
14/02/2006 09:15 Presented by Mr. Serge Willenegger from Qualcomm Europe
Discussion (Question / Comment):
Decision: This LS was approved as final version.
- R1-060275 Value range for Qoffmbms (To: RAN1, RAN4)** (RAN WG2, LG Electronics)
13/02/2006 09:28 Presented by Mr. Dragan Vujcic from LG electronics
Discussion (Question / Comment):
Decision: This document was noted. It was decided to prepare the draft LS in R1-060676 (LGE)
- R1-060676 Reply to LS on Value range for Qoffmbms (R2-053171)** (LG Electronics)
14/02/2006 09:15 Presented by Mr. Dragan Vujcic from LG electronics
Discussion (Question / Comment):
Decision: This LS was approved as final version.
- R1-060276 Improved Support of IMS Realtime Services using HSDPA/HSUPA**
(To: RAN2, RAN1, Cc: RAN3) (RAN WG4, Nokia)
13/02/2006 09:30 Presented by Mr. Markku Tarkiainen from Nokia.
Discussion (Question / Comment):
Decision: This document was noted.
- R1-060277 LS on Puncturing limit for Conversational / speech 12.2 kbps + Interactive 0 kbps (To: RAN1)**
(RAN WG5, Ericsson)
13/02/2006 09:32 Presented by Mr. Johan Bergman from Ericsson
Discussion (Question / Comment):
Decision: This document was noted.
- R1-060278 LS on Higher data rates in MBMS user service (To: SA1, Cc: RAN1)**
(SA WG4, Ericsson, Nokia)
13/02/2006 09:35 Presented by Mr. Johan Bergman from Ericsson
Discussion (Question / Comment):
Decision: This document was noted.
- R1-060279 Liaison Statement from RAN2 on RAB and the error-delay-profile for the performance characterization of VoIMS over HSDPA/EUL (To: RAN2, Cc: RAN1, RAN4, RAN5, SA1)**
(SA WG4, BenQ mobile)
13/02/2006 09:36 Presented by Dr. Heino Gerlach from BenQ mobile
Discussion (Question / Comment):
Decision: This document was noted.
- R1-060612 Draft Reply LS on RAB and the error-delay-profile for the performance characterization of VoIMS over HSDPA/EUL**
(Lucent Technologies)
13/02/2006 09:40 Presented by Dr. Rainer Bachl
Discussion (Question / Comment):
There were some discussion on the simulation results and simulation assumption.
Mr. RAN1 chairman commented that we can discuss and agree on the parameter of RAN1 (layer 1), but voice codec is beyond RAN1 area so that at least we should clear the Layer 1.
Decision: It was decided to continue the offline discussion during the week and prepare the draft LS by Friday in R1-060677
- R1-060677 Draft Reply LS on RAB and the error-delay-profile for the performance characterization of VoIMS over HSDPA/EUL**
(Lucent Technologies)
17/02/2006 09:10 Presented by Dr. Rainer Bachl
Discussion (Question / Comment):
Decision: This document was noted.

Discussion (Question / Comment):

Decision: This document was noted.

R1-060728 **LS on input to TS25.202 (To: RAN1, Cc: RAN2, RAN4)**
(RAN WG3, IPWireless)

16/02/2006 14:25 Presented by Dr. Martin Beale

Discussion (Question / Comment):

Decision: This document was noted. The text is included in TS25.202

R1-060736 **LS on input to TS25.202 (To: RAN1)**
(RAN WG4, IPWireless)

16/02/2006 17:45 Presented by Dr. Martin Beale

Discussion (Question / Comment):

Decision: This document was noted. The text is included in TS25.202

R1-060744 **Response to LS on TS25.202 (To: RAN1)** **(RAN WG2, IPWireless)**

17/02/2006 10:50 Presented by Dr. Martin Beale

Discussion (Question / Comment):

Decision: This document was noted. The text is included in TS25.202

The updated version 25.202 v.1.1.1 is provided in R1-060745 for email approval until 24th February.

R1-060747 **LS on LTE Channel Models and simulations (To: RAN1)**
(RAN WG4, Ericsson)

17/02/2006 15:45 Presented by Bo Göransson

Discussion (Question / Comment):

Rainer Bachl from Lucent asked on the link simulation model. The answer was that it's based on ITU-R model
Joern Krause from Siemens asked whether the channel model will be updated in the future as it was mentioned that
RAN4 will continue working on the channel model. The answer was that it's on of the topics on e-mail ad-hoc.

Decision: This document was noted. **RAN1 to adopt the proposal in R4-060334.**

Outgoing LS

R1-060491 **LS on RAN1 discussion about the introduction of 1.6MHz**
(To: RAN) **(RAN WG1)**

R1-060675 **Reply to LS on Reference RAB Configurations for MBMS (R2-053142)**
(To: RAN2) **(RAN WG1)**

R1-060676 **Reply to LS on Value range for Qoffmbms (R2-053171)**
(To: RAN2) **(RAN WG1)**

R1-060687 **LS for input to TS 25.202 (To: RAN2, RAN3, RAN4)** **(RAN WG1)**

R1-060697 **LS on support for different E-DCH and HS-DSCH serving cells**
(To: RAN2, Cc: RAN3, RAN4) **(RAN WG1)**

R1-060719 **LS answer to RAN3 R3-060085 (=R1-060004) on RRM for LTE**
(To: RAN3, Cc: RAN2, RAN4) **(RAN WG1)**

R1-060729 **Response LS on additional WB-AMR RAB combination, VT bearer**
configuration, and Uplink streaming 128 kbps combinations
(To: RAN2) **(RAN WG1)**

R1-060741 **Response LS to ITU-R Ad Hoc (To: ITU-R Ad Hoc)** **(RAN WG1)**

R1-060743 **Reply to LS on Synchronisation of Reconfiguration with activation time “now”**
(To: RAN2, Cc: RAN3, RAN4) **(RAN WG1)**

R1-060753 **LS on RAB and the error-delay-profile for the performance characterization of**
VoIMS over HSDPA/EUL (To: RAN2, Cc: SA4) **(RAN WG1)**

Not Treated

R1-060481 **Draft LS Reply for RACH Related Questions** **(Qualcomm Europe)**

6. Maintenance of R99, Rel4, Rel5, Rel6

The overview of discussion and conclusion on this section is as followed:

1. Code hopping for LCR TDD enhancement was seen as an issue that can be considered by Work Item so that the proponent will submit the proposal WID in next RAN Plenary.
2. Regarding reconfiguration of EUDCH, it was decided to whether to specify behavior or not, which should be based on consequent analysis, would be provided by next RAN1 meeting.
3. Regarding reconfiguration with activation time "now", there were two proposals from LG electrics and Siemens. And the conclusion that LG proposal seems feasible and shoes not require newly defined UE and new specification at all so that based on the LG proposal the LS was sent to RAN2 in R1-060743.
4. Agreed CR

Tdoc Number	Spec	Release	Title
R1-060679	25.804	Rel-6	Simulation results of LCR TDD enhanced uplink
R1-060682	25.213	Rel-6	Correction to number of configured DPDCHs when E-DPDCH is configured
R1-060554	25.214	Rel-6	Correction to number of configured DPDCHs in relation to E-DPDCH power scaling
R1-060619	25.221	Rel-7	Introduction of the Physical Layer Common Control Channel (PLCCH)
R1-060620	25.222	Rel-7	Introduction of the Physical Layer Common Control Channel (PLCCH)
R1-060621	25.224	Rel-7	Introduction of the Physical Layer Common Control Channel (PLCCH)

6.1 R99 CRs + shadow CRs

No document

6.2 Rel4 CRs + shadow CRs

No document

6.3 Rel5 CRs + shadow CRs

R1-060330 25.214 CR0414 (Rel-5, F) "Clarification of Power Control for HS-PDSCH" **(Agere Systems)**

13/02/2006 10:00 Presented by Mr. Matthew Cooke

Discussion (Question / Comment):

Ericsson, Nokia, Nortel and Siemens showed the objection to this CR because Node B behaviour is not intend to be specified and also there are no benefits for UE side by this CR.

Decision: This CR was rejected because NodeB behaviour is not intended to be specified in detail.

R1-060331 25.214 CR0415 (Rel-6, A) "Clarification of Power Control for HS-PDSCH" **(Agere Systems)**

13/02/2006 10:00 Presented by Mr. Matthew Cooke

Discussion (Question / Comment):

Decision: This CR was rejected because NodeB behaviour is not intended to be specified in detail.

6.4 Rel6 CRs

R1-060523 TR25.804CR0002(Rel-6, B) "Analysis of intra-frame Scrambling Code hopping for LCR TDD Enhanced Uplink" **(CATT)**

13/02/2006 10:05 Presented by Mr. Wang Ke.

Discussion (Question / Comment):

Nicholas Anderson from IPWireless raised a concern on the UL synchronization on the simulation. Wang Ka from CATT answered the they assumed the UL synchronization on their simulation. Also Nicholas Anderson pointed out on the impact of the code hopping on the LCR-TDD.

Mr. Chairman commented that this topics is not for SI phase, it means that we don't treat this on the TR25.804

Decision: Offline discussion and come back Friday. The code hopping was seen as an issue that can be considered by work item so that **this CR was not agreed.**

R1-060524 TR25.804CR0001r2(Rel-6, B) "Simulation results of LCR TDD enhanced uplink" (CATT)

13/02/2006 10:18 Presented by Mr. Wang Ke.

Discussion (Question / Comment):

Decision: This CR was agreed in principle (pending the part on intra-frame code hopping which is for further discussion until Friday). It was decided to prepare revision of the CR in R1-060679.

R1-060679 TR25.804CR0001r3 (Rel-6, B) "Simulation results of LCR TDD enhanced uplink" (CATT)

17/02/2006 09:55 Presented by Mr. Wang Ke.

Discussion (Question / Comment):

Decision: **This CR was agreed.** (WI code on the cover sheet was added by secretary)

R1-060553 25.213 CR0084(Rel-6, F) "Correction to number of configured DPDCHs when E-DPDCH is configured" (Philips)

13/02/2006 11:15 Presented by Mr. Matthew Baker

Discussion (Question / Comment):

Nokia, Ericsson, LGE and Panasonic showed their support to this CR except for the wording.

Decision: This CR was agreed in principle with exact wording to be discussed further and it was revised in R1-060682

R1-060682 25.213 CR0084r1(Rel-6, F) "Correction to number of configured DPDCHs when E-DPDCH is configured" (Philips, Ericsson, LGE, Nokia, Panasonic, Qualcomm)

17/02/2006 09:55 Presented by Mr. Matthew Baker

Discussion (Question / Comment):

Decision: **This CR was agreed.**

R1-060554 25.214 CR0416(Rel-6, F) "Correction to number of configured DPDCHs in relation to E-DPDCH power scaling" (Philips)

13/02/2006 11:25 Presented by Mr. Matthew Baker

Discussion (Question / Comment):

Decision: **This CR was agreed.**

R1-060589 Reconfiguration of EUDCH (Panasonic)

13/02/2006 11:28 Presented by Mr. Hidetoshi Suzuki

Discussion (Question / Comment):

Johan B from Ericsson commented that before making a decision we need the consequent analysis. Karri Ranta-aho from Nokia commented that he agree to this document generally so that the base line is no specify reconfiguration but we may do work for some special case.

Sarah Boumendil from Nortel commented that she does not want to specify but we may do have some analysis on the potential case so that try to continue discussion until next meeting.

Decision: This document was noted. It was decided that to decide whether to specify behaviour or not, which should be based on consequent analysis, should be provided by RAN1#44bis.

6.5 Other

R1-060619 25.221CR0135 (Rel-7, B)"Introduction of the Physical Layer Common Control Channel (PLCCH)" (IPWireless)

13/02/2006 11:45 Presented by Mr. Nicholas Anderson

Discussion (Question / Comment):

No comment for objection and comments

Decision: **This CR was considered to be agreed.**

R1-060620 25.222CR0126 (Rel-7, B)"Introduction of the Physical Layer Common Control Channel (PLCCH)"
(IPWireless)

13/02/2006 11:48 Presented by Mr. Nicholas Anderson

Discussion (Question / Comment):

Decision: This CR was considered to be agreed.

R1-060621 25.224CR0149 (Rel-7, B)"Introduction of the Physical Layer Common Control Channel (PLCCH)"
(IPWireless)

13/02/2006 11:50 Presented by Mr. Nicholas Anderson

Discussion (Question / Comment):

Nicholas Anderson from IPWireless clarified that RAN2 and RAN3 CRs are also available at this meeting.

Decision: This CR was considered to be agreed.

R1-060590 Fixed position and flexible position in TR25.993 (Panasonic)

13/02/2006 11:50 Presented by Mr. Hidetoshi Suzuki

Discussion (Question / Comment):

Johan Bergman from Ericsson commented that he doesn't want to specify the both.

Evelyn Le Strat from Nortel asked if we did not have any objection for the special case on the last plenary so what is the conclusion on the last plenary meeting. Hidetoshi Suzuki from Panasonic clarified that RAN conclusion was for only VoIP case and this document discusses the wider case.

Decision: It was decided that Specification of both alternatives should be avoided whenever possible.

R1-060530 Synchronization with activation time "now" (LG Electronics)

13/02/2006 12:00 Presented by Mr. Dragan Vujcic

Discussion (Question / Comment):

Malgorzata Wimmer from Siemens asked why the simulation assumption on ULSIR_{DPCC} target is 5 dB because conclusion mentioned ULSIR_{DPCC} targets is below 5dB. Dragan Vujcic from LGE answered that 5dB is "zero" target and the target is the implementation matter.

Karri Ranta-aho from Nokia raised a concern on the SHO case.

Decision: This document was noted

R1-060605 Call Setup Delay: Radio link reconfiguration with activation time now" (Siemens)

13/02/2006 12:15 Presented by Ms. Malgorzata Wimmer.

Discussion (Question / Comment): This document was moved from section 5.

Yannick Le Pezennec from Vodafone commented that this proposal is the same issue as the LGE but this is UE side. The discussion on the detection and change of scrambling code continued

Dragan Vujcic from LGE clarified that their proposal does not require on the RAN1 spec but change the RAN2 and RAN3 spec.

Decision: This document was noted.

Conclusion from the discussion on R1-060530 and R1-060605

Draft an LS (R1-060683) reply indicating that LG proposal seems feasible (concerns expressed on NodeB complexity and lack of power control (and even data) during the detection period, SHO situation w.r.t. sync loss) and does not require newly defined UE behaviour, note that there are issues with too low DPCC SIR target that could be overcome, e.g. through temporary SIR target increase (no new functionality needed in the UE). Mention that no new specification might be needed at all for the LG proposal. Alternative proposals discussed (L1 signalling TFCI, FBI), which require new UE behaviour.

R1-060683 [DRAFT] Reply to LS on Synchronisation of Reconfiguration with activation time "now" (LG Electronics, Ericsson, Vodafone)

17/02/2006 12:15 Presented by Mr.. Dragan Vujcic

Discussion (Question / Comment):

Decision: This draft LS was approved in R1-060743 with addition of RAN3 in Cc.

R1-060735 Synchronization with activation time "now" ; Impacts on R,99, Rel-4, and Rel.5 (Siemens)

17/02/2006 10:05 Presented by Dr. Joern Krause

Discussion (Question / Comment): This document was treated with related to R1-060683.

Decision: This document was noted. From the discussion on this contribution, it was clarified that Reconfiguration of UL scrambling code for a UE is not considered to make the radio link appear to be "new".

R1-060453 F-DPCH support in early Rel-6 UE (Qualcomm Europe)

13/02/2006 12:45 Presented by Mr. Serge Willenegger

Discussion (Question / Comment):

Yannick Le Pezennec from Vodafone commented that at this stage they have no solution, but it very useful to address this issue.

Qualcomm clarified that they also submitted it to RAN2 this time and intend to submit it in next RAN plenary.

Decision: This document was noted.

R1-060446 On the power control for Rel. 6 (Qualcomm Europe)

13/02/2006 14: 15 Presented by Mr. Juan Montojo

Discussion (Question / Comment):

Yannick Le Pezennec from Vodafone asked if this scenario has the same serving HSDPA and HSUPA cell. Juan Montojo answered that we consider the same Node B in this document but we can assume different Node B.

Decision: Preferred solution seems to be to have serving HS-DSCH and E-DCH cell. It was decided to prepare draft an LS to RAN2 to recommend this in R1-060684.

R1-060684 [DRAFT] LS on support for different E-DCH and HS-DSCH serving cells (Qualcomm Europe)

13/02/2006 19: 00 Presented by Mr. Serge Willenegger

Discussion (Question / Comment):

Decision: This draft LS was approved with addition of the sentence in R1-060697.

Withdrawn

R1-060406 Intra-frame Code Hopping for 1.28Mcps TDD (ZTE)

7. 3.84 Mcps TDD Enhanced Uplink

R1-060631 **TR 25.826 v0.3.1** (IPWireless)

13/02/2006 15:05 Presented by Mr. Nicholas Anderson

Discussion (Question / Comment):

Decision: This document was noted.

R1-060632 **Modulation for 3.84Mcps TDD Enhanced Uplink** (IPWireless)

13/02/2006 15:10 Presented by Mr. Nicholas Anderson

Discussion (Question / Comment):

Decision: This TP was agreed to be included in version 1.0.0 of TR with change marks approved in R1-060685.

R1-060685 **TR 25.826 v1.0.0** (IPWireless)

This version will be submitted in the next RAN Plenary as information.

Withdrawn

R1-060633 **E-DCH transport channel processing for 3.84Mcps TDD Enhanced Uplink**
(IPWireless)

R1-060634 **Channelisation code assignment for 3.84Mcps TDD Enhanced Uplink**
(IPWireless)

R1-060635 **EU-TDD: Multiplexing of E-UCCH and E-DCH** (IPWireless)

8. 7.68 Mcps TDD Option

The overview of discussion and conclusion on this section is as followed:

1. Set of CRs for TS25.201, 221, 222, 223, 224, 225 was agreed but these CRs would not submitted to next RAN plenary with waiting for CRs from the other WGs.
2. The LS that asked RAN2, RAN3, RAN4 to provide the text input to related sections in TS25.202 was sent to the other RAN WGs, and the received text in reply LS were included in TS25.202 in R1-060745. TS25.202 version 2.0.0 will be sent to RAN#31 for approval
3. TR25.809 will be closed and be sent version 2.0.0 to RAN#31 plenary for approval.

R1-060622 25.201CR0023 (Rel-7, B)"Introduction of 7.68Mcps TDD option"
(IPWireless)

13/02/2006 15:20 Presented by Dr. Martin Beale

Discussion (Question / Comment):

Decision: The CR was agreed.

R1-060623 25.221CR0136 (Rel-7, B)"Introduction of 7.68Mcps TDD option"
(IPWireless)

13/02/2006 15:22 Presented by Dr. Martin Beale

Discussion (Question / Comment):

Decision: The CR was agreed.

R1-060624 25.222CR0127 (Rel-7, B)"Introduction of 7.68Mcps TDD option"
(IPWireless)

13/02/2006 15:24 Presented by Dr. Martin Beale

Discussion (Question / Comment):

Decision: The CR was agreed.

R1-060625 25.223CR0038 (Rel-7, B)"Introduction of 7.68Mcps TDD option"
(IPWireless)

13/02/2006 15:26 Presented by Dr. Martin Beale

Discussion (Question / Comment):

Decision: The CR was agreed.

R1-060626 25.224CR0150 (Rel-7, B)"Introduction of 7.68Mcps TDD option"
(IPWireless)

13/02/2006 15:27 Presented by Dr. Martin Beale

Discussion (Question / Comment):

Decision: The CR was agreed.

R1-060627 25.225CR0079 (Rel-7, B)"Introduction of 7.68Mcps TDD option"
(IPWireless)

13/02/2006 15:28 Presented by Dr. Martin Beale

Discussion (Question / Comment):

Decision: The CR was agreed.

R1-060628 MICH aspects for 7.68 TDD option
(IPWireless)

13/02/2006 15:15 Presented by Dr. Martin Beale

Discussion (Question / Comment):

Decision: TPs in this document were agreed to be included in TR and TS.

R1-060629 IPDL aspects for 7.68 TDD option
(IPWireless)

13/02/2006 15:18 Presented by Dr. Martin Beale

Discussion (Question / Comment):

Decision: TP in this document were agreed to be included in TR.

R1-060630 Proposed LS for input to TS 25.202
(IPWireless)

13/02/2006 15:20 Presented by Dr. Martin Beale

Discussion (Question / Comment):

Decision: The conclusion of this topic is as followed.

- LS send out to the other WG.
- TR will be closed and sent out to RAN Plenary.

- The set of CRs might not be included in the specifications with waiting for the other WGs so that in the next Plenary meeting we just check the other WG situation.

Included v1.1.0 of TS25.202 in R1-060686 and the final LS is R1-060687.

Proposed 1.0.1 of TR 25.809 in R1-060688

R1-060686 TS25.202 v1.1.0

(IPWireless)

14/02/2006 09:12 Presented by Dr. Martin Beale

Discussion (Question / Comment):

Decision: This document was noted.

R1-060687 LS for input to TS 25.202

(IPWireless)

14/02/2006 09:12 Presented by Dr. Martin Beale

Discussion (Question / Comment):

Decision: This LS was approved as the final version.

R1-060688 TR25.809 v1.0.1

(IPWireless)

14/02/2006 09:10 Presented by Dr. Martin Beale

Discussion (Question / Comment):

Decision: This version was endorsed in v 2.0.0 in R1-060701 and it will be presented in RAN plenary for approval.

R1-060701 TR25.809 v2.0.0

(IPWireless)

The input from the other WGs in R1-060728, R1-060736 and R1-060744 are included in update version of TS25.202 (v1.1.1) provided in R1-060745 for email approval until 24th February.

R1-060745 TS25.202 v1.1.1

(IPWireless)

Decision: There was no objection and comment on the RAN1 reflector after the meeting so that this version will be version 2.0.0 and be sent to RAN#31 for approval.

9. MIMO in UTRA (Rel'7 Work Item)

The overview of discussion and conclusion on this section is as followed:

1. Two different schemes proposed for evaluation and its complexity were discussed. One is PARC and the other is D-TxAA.
2. The discussion could not reach to the agreement for selecting one scheme for evaluation so that RAN1 chairman do voting for the selection of one scheme. Two indicative votes were taken; in the first 12 companies supported D-TxAA, and 11 supported PARC. In a second vote, 14 companies supported PARC and 11 companies supported D-TxAA.
3. Taking the result of voting and RAN's instruction that RAN1 is to select one scheme for further evaluation into account, RAN1 chairman proposes that RAN1 selects PARC and he asked all delegates "Who is object to this decision". Just one company was able to clearly express their objection to the decision orally, although all companies had the possibility to express their views and objections. After the chair asked whether there would be any further comments and no further comments were requested, he concluded the discussion by summarizing the number of objections stated. Right after that, other companies indicated their objections on the floor, which the chair denied for the reason that significant time was spent on this discussion already and that the meeting had to progress. So as a conclusion RAN1 chairman decided to report the situation to the RAN plenary and recommend to select PARC for the further evaluation.

UE complexity aspects

R1-060428 Further Consideration of MIMO for Rel.7 WCDMA (Texas Instruments)

14/02/2006 19:10 Presented by Dr. Eko Onggosanusi.

Discussion (Question / Comment):

Dirk from T-mobile pointed out that as mentioned in this contribution the co-existing of non-MIMO and MIMO UE is the one of issue.

Decision: This document was noted.

R1-060565 UE complexity for WCDMA MIMO (Ericsson)

14/02/2006 19:15 Presented by Mr. Eriass Jonsson.

Discussion (Question / Comment):

Thanh Bui from NEC raised a comment and concern on the baseline value and the value of HARQ buffer SIC in the result table.

Decision: This document was noted.

R1-060448 2x2 MIMO with Interference Cancellation: Complexity increase over 1x2 Type III receiver (Qualcomm Europe)

14/02/2006 19:30 Presented by Mr. Josef Blanz.

Discussion (Question / Comment):

Decision: This document was noted.

Impact on non-MIMO UEs

R1-060449 Compatibility analysis: Impact of 2x2 MIMO operation on legacy Rel-5 UEs (Qualcomm Europe)

14/02/2006 19:40 Presented by Mr. Josef Blanz.

Discussion (Question / Comment):

Mark Harrison from Motorola asked how about impact for Rel99 UE. Josef Blanz answered that the most critical thing is the CQI reporting and Rel99 has no reporting so that measurement time is much longer and less impact than Rel-5.

Suzuki Hidetoshi from Panasonic commented that RAKE is exiting in Market. Josef Blanz commented that we should consider all kind of situation, but the reason for picking up type III is that it's sensitive to channel estimation.

Decision: This document was noted.

MIMO schemes proposed for evaluation

R1-060281 MIMO scheme for consideration in UTRA MIMO evaluations (Nokia)

13/02/2006 20:05 Presented by Mr. Kari Rikkinen..

Discussion (Question / Comment):

Bo Göransson from Ericsson asked why "low delay spread" has benefit. Nokia answered that low delay spread has the benefit to all MIMO scheme benefit but it's very beneficial to implementation of beamforming.
Siemens show their that they agree to the closed loop type with FBI.

Decision: This document was noted. Nokia propose to use D-TxAA

R1-060615 MIMO Evaluation Proposal (Motorola)

14/02/2006 20:25 Presented by Mr. Mark Harrison

Discussion (Question / Comment): Josef Blanz from Qualcomm Europe asked if the channel estimation, feedback and so on, all thing are perfect. Mark Harrison answered that yes it's the upper bound performance. To the answer, Josef Blanz commented that the real estimation, feedback error is very sensitive to the performance.
Sharat Chander from Cingular Wireless commented on the impact on the existing antenna operation.

Decision: This document was noted.

R1-060566 Closed loop transmit diversity in HSDPA (Ericsson)

14/02/2006 20:50 Presented by Mr. Bo Göransson

Discussion (Question / Comment):

Farooq from Samsung commented on the importance of optimising MCS and HARQ operation.

Thanh Bui from NEC asked how accurate measurement is and how CQI is reported. Bo Göransson answered that of course, sometimes there are errors on CQI reporting but the same impact is on PARC.

Decision: This document was noted

R1-060555 MIMO for HSDPA using PARC-Diversity (Philips)

14/02/2006 21:30 Presented by Mr. Matthew Baker

Discussion (Question / Comment): Juho Lee from Samsung commented that we discuss about Rel-7 2x2 MIMO we already have STTD. Mathew Baker commented that their motivation is the better performance and possibility of the same structure with PARC.

Decision: This document was noted

R1-060567 Initial MIMO performance in the micro cellular environment (Ericsson)

14/02/2006 21:45 Presented by Mr. Bo Göransson

Discussion (Question / Comment):

Decision: This document was noted

R1-060568 On the choice of MIMO technology in Rel-7 (Ericsson)

This document is merged with R1-060447 in R1-060708

R1-060447 Proposal for selection of a Rel-7 MIMO scheme for the upcoming evaluation phase (Qualcomm Europe)

This document is merged with R1-060568 in R1-060708

R1-060708 Selection of a Rel-7 MIMO scheme for the upcoming evaluation phase (Qualcomm Europe, 3, Cingular Wireless, Ericsson, Lucent Technologies)

14/02/2006 22:00 Presented by Dr. Josef Blanz from Qualcomm Europe

Discussion (Question / Comment):

For agreement of this contribution, Nokia raised a objection and proposed closed-loop (D-TxAA)

Decision: This document was noted.

After the discussion on contributions, each company show their opinion for two proposals as followed.

- PARC with 2 Transmit antennas in combination with dynamic fall back to R99 supported by: Qualcomm Europe, 3, Cingular Wireless, Ericsson, Lucent Technologies, T-Mobile, Vodafone, Orange, Mitsubishi, IPWireless (R99 fallback needs further consideration for TDD), Philips
- D-TxAA supported by: Nokia, Motorola, TI, Alcatel, Siemens, Nortel, Samsung, LG, NEC, Intel, ETRI, ZTE

The discussion to the agreement continued to late evening on Tuesday (14th February), but the discussion could not reach to the agreement.

Next day, 15th February, Wednesday, this topic was discussed again. Mr. RAN1 Chairman asked each company to show the current situation. The final supporting companies to each proposal are as followed.

- PARC with 2 Transmit antennas in combination with dynamic fall back to R99 supported by: Qualcomm Europe, Ericsson, Huawei, TeliaSonera, 3, Cingular Wireless, Lucent

Technologies, T-Mobile, Vodafone, Orange, Mitsubishi, IPWireless (R99 fallback needs further consideration for TDD), Philips, Agere

- D-TxAA supported by: Nokia, Motorola, TI, Alcatel, Siemens, Samsung, LG, NEC, Intel, ETRI, ZTE

The long discussion continued for way forward. Some companies (Samsung, T-Mobile, Philips) showed their opinion that we had better move the decision to the next RAN plenary. To this opinion, Mr. RAN1 Chairman, Mr. Dirk Gerstenberger raised a concern we don't forget that this decision was moved from RAN to RAN1 so that RAN1 must surely make a decision on the selection of scheme for MIMO evaluation considering the complexity.

Cingular Wireless commented that the most operators supported to option 1 (PARC with 2 Transmit antennas in combination with dynamic fall back to R99) so that we should look at the message from operator on the decision. In addition, as the opinion from the operator, Vodafone commented that this is not a decision to specify but for evaluation and they support to option1 just for evaluation. The long discussion continued and Qualcomm raised a concern that some companies prevent MIMO evaluation for HSDPA by picking up some reasons that at first no gain, and next complexity. We must full agree as soon as possible and go ahead to the final decision at June 2006.

At finally, Mr. RAN1 Chairman commented the important thing in this stage is going forward to the final decision so that we take option 1 (PARC with 2 Transmit antennas in combination with dynamic fall back to R99) as majority, 14 vs. 11, and he asked all delegates "Who is object to this decision". Just one company clearly expressed their objection to the decision orally, and it was later clarified that there were other objections that were not formally stated during the vote, so as a conclusion Mr. RAN1 chairman would report the situation to the RAN plenary and recommend to select PARC for the further evaluation.

Not Treated

R1-060636 Simulation Assumption for MIMO Urban Micro Scenario (TDD) (IPWireless)

Although this document was not explicitly treated, it was confirmed by the chairman that the document proposed a PARC scheme for ongoing study of the urban micro scenario in the MIMO WI for TDD.

Withdrawn

R1-060280 HSDPA MIMO Evaluation

(Nokia)

10. Continuous Connectivity for Packet Data Users

The overview of discussion and conclusion on this section is as followed:

1. The proposed concepts such as SIR target reduction, DPCCH gating, HS-HCCH optimizations, and DRX in UE and also the comparison of each concept were discussed.
2. 14 text proposals were agreed (one of them agreed on the email reflector) to be included in TR25.903.
3. TR25.903 version 0.2.1 with the agreed CR at this meeting was endorsed as version 0.3.0 in R1-050754.

Sub-states etc.

R1-060408 Text proposal to TR 25.903 to clarify terminology for Continuous Connectivity (Ericsson, Lucent, Nokia, Philips, Qualcomm, Siemens)

13/02/2006 16:25 Presented by Dr. Joern Krause from Siemens.

Discussion (Question / Comment): The discussion was on the HS-SCCH on the active mode.

Johan Bergman from Ericsson pointed out that in the sentence of "two general transition control approaches" it is not two but three.

Decision: This TP was agreed to be included in TR with the correction.

R1-060493 Alternative approach to the terminology for phase transitions (Infineon)

13/02/2006 16:40 Presented by Mr Hyung-Nam Choi.

Discussion (Question / Comment):

Decision: This document was noted.

R1-060644 Further discussion of proposals for Continuous Connectivity (Philips)

13/02/2006 16:50 Presented by Mr. Matthew Baker

Discussion (Question / Comment):

Johan Bergman from Ericsson asked if the application of the new slot format is for all the time. Matthew answered that yes it is the same as the existing slot format. Johan Bergman mentioned that we need more off-line discussion for agreement.

Decision: The text proposal in this document was revised in R1-060691.

R1-060691 Text proposal on ConCon Initiation and Termination with new DPCCH Slot Format (Philips, Ericsson)

17/02/2006 15:40 Presented by Mr. Matthew Baker

Discussion (Question / Comment):

Decision: This text proposal was agreed.

Concept Comparison

R1-060569 Continuous Connectivity Concept Considerations (Ericsson)

13/02/2006 17:02 Presented by Mr. Johan Bergman

Discussion (Question / Comment):

Joern Krause from Siemens asked if the third bullet on section 2.2 is mandatory or optional. Johan Bergman answered that now optional, but from system point of view, mandatory is better.

Juan Montojo from Qualcomm Europe commented that as for UL/DL imbalance improving DL is much important considering VoIP.

Decision: This document was noted.

R1-060409 Text proposal to TR 25.903 to comparing Continuous Connectivity concepts (Nokia, Philips, Siemens)

13/02/2006 17:12 Presented by Dr. Joern Krause from Siemens.

Discussion (Question / Comment):

Johan Bergman from Ericsson mentioned that they need an off-line discussion on the some bullet. Nahoko Kuroda from NEC mentioned that they have a document on the SIR reduction which is open issue on this document.

Decision: It was decided to continue discussion and revised in R1-060692.

R1-060692 Text proposal to TR 25.903 to comparing Continuous Connectivity concepts (Nokia, Philips, Siemens)

17/02/2006 15:40 Presented by Dr. Joern Krause from Siemens.

Discussion (Question / Comment):

Decision: This text proposal was agreed.

SIR target reduction

R1-060357 Beta boosting for SIR target lowering concept (Siemens)

13/02/2006 17:40 Presented by Ms. Malgorzata Wimmer.

Discussion (Question / Comment): From Nokia and Philips, the concern was raised on the end of text proposal.

Decision: This text proposal was agreed with Replace last sentence to: "For this purpose a power offset on HS-DPCCH and/or DPCCCH is FFS."

R1-060411 Radio link synchronisation in SIR_target reduction (NEC Group)

13/02/2006 17:25 Presented by Ms. Nahoko Kuroda.

Discussion (Question / Comment):

Karri Ranta-aho from Nokia commented that it seems to be the same as the DPCCCH gating.

Joern Krause from Siemens commented they support to the some parts of the text proposal but we need to modify in the some part. NEC clarified that alternative 3 is the special case of alternative 2.

Decision: The text proposal was revised in R1-060693

R1-060693 TP on Radio link synchronisation in SIR_target reduction (NEC Group, Siemens)

17/02/2006 15:40 Presented by Ms. Nahoko Kuroda.

Discussion (Question / Comment):

Decision: This text proposal was agreed.

R1-060571 Power Offsets for SIR Target Reduction (Ericsson)

13/02/2006 18:00 Presented by Mr. Johan Bergman

Discussion (Question / Comment):

Decision: The text proposal was revised in line with the discussion on R1-060357 in R1-060694

R1-060694 TP on Power Offsets for SIR Target Reduction (Ericsson)

17/02/2006 15:41 Presented by Mr. Johan Bergman

Discussion (Question / Comment):

Decision: This text proposal was agreed.

R1-060599 Text proposal for TR 25.903 on SIR_target reduction for VoIP (Siemens)

13/02/2006 18:11 Presented by Dr. Joern Krause

Discussion (Question / Comment): Karri Ranta-aho from Nokia pointed out that this solution is difficult at the SHO scenario. Mr. Chairman raised a small concern that the service dependency could be defined by the layer 1

Decision: The TP was revised to be more general in R1-060695.

R1-060695 Text proposal for TR 25.903 on SIR_target reduction for VoIP (Siemens)

17/02/2006 15:43 Presented by Dr. Joern Krause

Discussion (Question / Comment):

Decision: This text proposal was agreed.

R1-060570 New UL DPCCCH Slot Format for both Active and Inactive Periods (Ericsson)

13/02/2006 18:40 Presented by Mr. Johan Bergman

Discussion (Question / Comment): Matthew Baker from Philips pointed out that the description on the added sentence is not example but is for evaluation.

Decision: The text proposal was agreed to be include only the square brackets and remove the additional sentence.

R1-060410 Text proposal to TR 25.903 to Continuous Connectivity summary tables (Siemens)

13/02/2006 18:50 Presented by Dr. Joern Krause from Siemens.

Discussion (Question / Comment): Matthew Baker from Philips commented that the TP should capture the earlier agreement on b_hs boosting. Karri Ranta-aho from Nokia raised a concern on the key benefits that what it means.

Decision: The TP was revised to Clarify SIR target reduction trigger description (incl VoIP case), remove key benefits column, include comment on b_hs boosting in R1-060696.

R1-060696 Text proposal to TR 25.903 to Continuous Connectivity summary tables (Siemens)

17/02/2006 15:44 Presented by Dr. Joern Krause from Siemens.

Discussion (Question / Comment):

Decision: This text proposal was agreed.

DPCCCH gating

R1-060451 Demodulation impact of DPCCCH gating (Qualcomm Europe)

13/02/2006 19:10 Presented by Mr. Juan Montojo.

Discussion (Question / Comment): Joern Krause from Siemens asked if how many antenna was considered. Juan Montojo answered two antennas.

Decision: This document was noted.

R1-060608 Analysis of DPCCH Gating (Siemens)

13/02/2006 19:30 Presented by Ms. Malgorzata Wimmer.

Discussion (Question / Comment):

Decision: This document was noted.

R1-060591 Fixed position and flexible position in TR25.993 (Nokia)

13/02/2006 19:50 Presented by Mr. Karri Ranta-aho

Discussion (Question / Comment):

Decision: This document was noted

R1-060592 TP on link level performance of UL DPCCH gating (Nokia)

13/02/2006 20:00 Presented by Mr. Karri Ranta-aho

Discussion (Question / Comment):

Decision: This TP was agreed to be included in TR.

R1-060594 Uplink DPCCH Gating - System Level Performance (Nokia)

17/02/2006 10:58 Presented by Mr. Karri Ranta-aho

Discussion (Question / Comment):

Decision: This document was noted

R1-060595 TP on system level performance of UL DPCCH gating (Nokia)

17/02/2006 11:05 Presented by Mr. Karri Ranta-aho

Discussion (Question / Comment):

Decision: This text proposal was agreed

R1-060549 Fully DTXed solution for ConCon (Huawei)

17/02/2006 11:06 Presented by Mr. Gaoke Du

Discussion (Question / Comment):

Huawei clarified that the proposal scheme sends really noting, no signalling DL/UL on ConCon mode.

Joern Krause from Siemens asked if, it's a completed new proposal or not and what's the different from Gating.

Juan Montojo from Qualcomm how does impact on maintain of synchronization on Node B, The answered was that Node B monitor UE synchronization, some companies raised a concern on the synchronization procedure.

Johan Bergman from Ericsson pointed out that there is no RRC connection on the criteria.

Karri Ranta-aho from Nokia pointed out that their proposal maintains sync but Huawei proposal does not maintain.

Joon-Kui Ahn from LGE suggested providing the full picture of this scheme in next time.

Decision: This document was noted.

R1-060550 Link simulation results on Fully DTXed solution for ConCon (Huawei)

R1-060551 TP for 25.903 on Fully DTXed solution for ConCon (Huawei)

Decision: These two documents was noted without presentation

R1-060593 TP on F-DPCH performance with Uplink DPCCH Gating Concept (Nokia)

17/02/2006 11:35 Presented by Mr. Karri Ranta-aho

Discussion (Question / Comment):

Matthew Baker from Philips simulation asked if mobility and shadowing are included in simulation assumption. The answer was no and also it was clarified that the power control was not considered.

Mathew Baker from Philips suggested fixing the figure.

Decision: The text proposal was revised in R1-060746, e-mail approval until 24th February.

R1-060746 TP on F-DPCH performance with Uplink DPCCH Gating Concept (Nokia)

Decision: On the email discussion, the text proposal was revised in R1-060759.

R1-060759 TP on F-DPCH performance with Uplink DPCCH Gating Concept (Nokia)

Decision: The text proposal was agreed on the e-mail reflector at 24th February.

R1-060596 UE battery life improvement with uplink DPCCH gating concept (Nokia)

17/02/2006 11:50 Presented by Mr. Karri Ranta-aho

Discussion (Question / Comment):

It was asked how the RX side is. The answer was that RX continues active. It was commented how SIR target reduction reflect.

Decision: This document was noted. It was decided to continue discussion until next meeting to include also models for DRX and reflect effects of SIR Target reduction.

R1-060597 Preliminary CR considerations for UL DPCCH gating concept (Nokia)

17/02/2006 12:10 Presented by Mr. Karri Ranta-aho

Discussion (Question / Comment):

Decision: This document was noted.

R1-060598 TP on Continuous Connectivity concepts and summary tables on gating (Nokia)

17/02/2006 12:20 Presented by Mr. Karri Ranta-aho

Discussion (Question / Comment):

There are a long discussion on the description and pattern on the table related to the other scheme.

Decision: The text proposal was agreed to be Included in TR, except column on key benefits.

HS-SCCH optimisations

**R1-060450 Further details on HS-SCCH-less operation for VoIP traffic
(Qualcomm Europe)**

17/02/2006 12:40 Presented by Mr. Juan Montojo.

Discussion (Question / Comment):

Rainer Bachl from Lucent pointed out on the impact on UE complexity.

Karri Ranta-aho from Nokia asked if the number of re-transmission on HARQ is. The answer was that maximum is 3, average is 2. Johan Bergman from Ericsson asked if the number transport block size is needed. The answer was that it is two for VoIP type.

It was clarified by Qualcomm that no new sub-frame formula is defined.

Decision: This document was noted.

R1-060613 HS-SCCH enhancement for VoIP (Lucent Technologies, Vodafone Group)

17/02/2006 14:10 Presented by Dr. Rainer Bachl

Discussion (Question / Comment): It was clarified by Lucent that two antennas for UE is assumed.

Karri Ranta-aho from Nokia asked how many transmission HARQ process is. The answer was that the maximum retransmission is 4.

RAN1 Chairman suggested continuing discussion on the HS-HCCH future.

Decision: This document was noted.

DRX in UE

R1-060452 Further details of DRX proposal (Qualcomm Europe)

17/02/2006 14:30 Presented by Mr. Juan Montojo.

Discussion (Question / Comment):

It was clarified that just 2ms TTI was considered for DRX and the service cell fro DL/UL is same.

Decision: This text proposal was agreed with correction of typo "HS-PDCCH" section 4.5.2.1.2

Updated TR (v.0.2.1) in R1-060748 is Email approval for v0.3.0 until 27th February.

R1-060748 TR25.903 v.0.2.1 (Edditor, Siemens)

Decision: This document was endorsed as version 0.3.0 in R1-060754 on e-mail reflector.

R1-060754 TR25.903 v.0.3.0 (Edditor, Siemens)

11. Improved support of gaming over HSPA

No document

12. Improvements of MBMS

No document

13. Evolved UTRA and UTRAN (Physical Layer)

The overview of discussion and conclusion on this section is as followed:

1. In this meeting, the contributions for Evolved UTRA and UTRAN are more than 330 documents so that MIMO for LTE, inter-cell interference mitigation, UE bandwidth and capability, UE measurements, UL basic transmission and modulation scheme, UL physical channel mapping, Random access procedure, UL scheduling, UL link adaptation and UL HARQ were mainly discussed, and the other topics will be discussed on the e-mail reflector until the next meeting shown in section 15 or postponed to the next meeting due to lack of time. MIMO for LTE was discussed at MIMO Ad Hoc session parallel to main session on Tuesday and Wednesday.
2. The decision on discussion was followed.
 - UE Minimum supported bandwidth for DL reception and UL Transmission is 10MHz.
 - UL Resource unit size $N=25$ is assumed for the study (same as downlink).
 - N-channel Stop-and-wait HARQ is the working assumption in Uplink and Downlink
3. The agreed Text proposals to TR25.814 were followed.

Category	Tdoc number	Title
Downlink	R1-060417	On generation and allocation of interleaver patterns for interleaved-division multiple access
	R1-060702	Interference cancellation for LTE & Revised TP for TR25.814
	R1-060712	Text proposal for TR25.814 section 7.1.2.6
	R1-060733	UE Bandwidth capability, text proposal
	R1-060749	Revised TP on downlink inter-cell interference cancellation
Uplink	R1-060757	OFDMA Downlink Physical layer measurements – text proposal
	R1-060519	Numerology of EUTRA TDD co-existing with UTRA TDD LCR Uplink based on SC-FDMA and text proposal for TR 25.814
	R1-060600	UL/DL idle symbol suppression in half duplex communications
	R1-060730	Revised text proposal on UL modulation scheme
	R1-060329	Cubic metric performances of optimum spectrum-shaping functions for PAPR reduction
	R1-060734	Text Proposal on SC-FDMA PAPR Reduction
	R1-060732	Text Proposal on SC-FDMA PAPR Reduction
	R1-060399	Text proposal for frequency mapping for uplink physical channel
	R1-060718	Text proposal on resource unit
	R1-060354	Text proposal on uplink scheduling
	R1-060722	Scheduling TP
	R1-060724	Link Adaptation for E-UTRA Uplink
	R1-060725	TP on uplink link adaptation
	R1-060737	HARQ E-UTRA TP
	R1-060298	Uplink Inter-cell interference mitigation and text proposal
	R1-060401	Interference Mitigation via Power Control, FDM Resource Allocation and UE Alignment for E-UTRA +TPs
	R1-060705	TP on Uplink Inter-cell Interference Mitigation using Load Indication
	R1-060706	TP on UL Interference Suppression Techniques
	R1-060711	Text proposal for TR25.814 section 9.1.2.7
	R1-060752	Revised TP on uplink inter-cell interference cancellation
	R1-060758	Variable TTI for LTE TP
MIMO	R1-060710	Text proposal on high level principles of MIMO for unicast traffic
	R1-060715	Text Proposal on Open-Loop Transmit Diversity for Evolved UTRA
	R1-060726	MIMO Precoding text
	R1-060438	Combined STBC/CDD transmission scheme for multiple antennas
	R1-060761	Extension of Uplink MIMO SC-FDMA with Preliminary Simulation results
	R1-060762	Text Proposal on Uplink Transmit Antenna Selection for E-UTRA

4. Current version TR25.814 is v1.1.1 in R1-060763 with agreed text proposal in this meeting. .

R1-060363 TR25.814 v.1.0.3 Physical Layer Aspects for Evolved UTRA
(Editor NTT DoCoMo)

15/02/2006 09:10 Presented by Dr. Sadayuki Abeta.

Discussion (Question / Comment):

Decision: This is endorsed as v1.1.0 in R1-060714

R1-060714 TR25.814 v.1.1.0 Physical Layer Aspects for Evolved UTRA
(Editor NTT DoCoMo)

R1-060763 TR25.814 v.1.1.1 Physical Layer Aspects for Evolved UTRA
(Editor NTT DoCoMo)

This version included all agreed text proposal at this meeting and was sent out on the reflector after the meeting.
TR25.814 v1.1.1 was endorsed as version 1.2.0 and would be sent out to RAN#31 as information.

R1-060572 LTE physical-layer models **(Ericsson)**

14/02/2006 09:15 Presented by Dr. Stefan Parkvall

Discussion (Question / Comment):

Mr. RAN1 Chairman commented that now we just take it note and it's the topic with RAN2.

Decision: The document was noted.

R1-060618 Hearing Aid Compatibility (HAC) of VoIP over HSPA (Cingular Wireless)

17/02/2006 14:45 Presented by Mr. Sharat Chander.

Discussion (Question / Comment):

Decision: The document was noted.

WCDMA-based UTRA/UTRAN evolution aspects

R1-060616 Support for Evolution of HSPA² (HSDPA+HSUPA) **(3G Americas,**
Cingular, Rogers, Andrew, Ericsson, HP, Lucent, Motorola, Nokia, Nortel, Siemens)

17/02/2006 15:00 Presented by Mr. Sharat Chander from Cingular Wireless

Discussion (Question / Comment): Juho Lee from Samsung raised a concern that LTE is very tight schedule, if in addition quite big new item start, it's big impact to LTE.

RAN1 Chairman commented that we have already many contribution on this area and it focus on WI so that he does not have such concern.

Decision: The document was noted.

R1-060617 Scope of future HSPA Evolution **(Cingular, Rogers,**
Andrew, Ericsson, HP, Lucent, Motorola, Nokia, Nortel, Siemens)

17/02/2006 15:00 Presented by Mr. Sharat Chander from Cingular Wireless

Discussion (Question / Comment):

Decision: The document was noted.

R1-060681 HSPA Evolution **(Ericsson)**

17/02/2006 15:10 Presented by Dr. Erik Dahlman

Discussion (Question / Comment):

There were some discussions on the difference from LTE regarding each target on this contribution.

Decision: The document was noted.

13.1 Description of OFDMA Downlink used in the concept evaluation

Not Treated

R1-060532 Multiplexing of MBMS and unicast transmission in E-UTRA downlink
(LG Electronics) (Resubmission of R1-060054)

R1-060533 Text proposal on MBMS multiplexing and transmission
(LG Electronics, Huawei, Samsung, ETRI)

MIMO Ad Hoc Session was held on Tuesday and Wednesday parallel to the main session and the contributions of for MIMO LTE were treated at that session.

Decision: This document was noted.

Decision: This text proposal was revised in R1-060710.

Decision: This document was noted.

Decision: This text proposal was agreed.

Decision: This text proposal was agreed.

Decision: This text proposal was agreed.

Decision: This text proposal was agreed.

- Time: Feb 23 10pm – midnight in Korean time.
- Agenda:
 - Uplink MIMO scheme used in the concept evaluation:

R1-060760 **LTE MIMO teleconference Chairman's note (LTE MIMO Ad Hoc Chairman)**

Decision: This document was noted.

Downlink (NTT DoCoMo , NEC, Sharp, Toshiba Corporation)

Decision: This document was noted.

R1-060521 Views on the High Level Principles of MIMO for unicast traffic in E-UTRA downlink (CATT, RITT)

Decision: This document was noted.

R1-060610 Feedback considerations for MIMO LTE (Siemens)

Decision: This document was noted.

R1-060611 Open and closed loop MIMO for LTE (Siemens)

Decision: This document was noted.

R1-060643 MIMO resource definition for E-UTRA (Philips)

Decision: This document was noted.

R1-060664 Further Aspects on MIMO for DL LTE (Alcatel)

Decision: This document was noted.

Evaluation scenario

R1-060441 Micro cell scenario for early evaluation of MIMO in EUTRA Multiple Access

R1-060680 Micro cell scenario for early evaluation of MIMO in EUTRA Multiple Access (Nokia)

Decision: This document was noted.

Unicast MIMO schemes

SU-and MU-MIMO

R1-060335 Downlink MIMO for Evolved UTRA (Samsung)

Decision: This document was noted.

R1-060336 Text Proposal on MIMO for Evolved UTRA (Samsung)

Decision: This document was noted.

R1-060362 MIMO techniques for Downlink E-UTRA: Detailed description and Simulation results (NEC Group)

Decision: This document was noted.

R1-060430 System Level Evaluation of Scheduling and Decoding Strategies for MIMO E-UTRA Systems (Texas Instruments)

Decision: This document was noted.

R1-060454 Overview of DL Spatial Multiplexing Schemes for E-UTRA (Qualcomm Europe)

Decision: This document was noted.

R1-060460 DL SDMA in E-UTRA (Qualcomm Europe)

Decision: This document was noted.

Single and multiple codewords

R1-060283 Single vs. multiple codewords for DL MIMO (Nokia)

Decision: This document was noted.

R1-060456 Link Analysis of Single and Multi Codeword Schemes - No Precoding (Qualcomm Europe)

Decision: This document was noted.

R1-060457 Description of Single and Multi Codeword Schemes with Precoding (Qualcomm Europe)

Decision: This document was noted.

R1-060458 Link Analysis of Single and Multi Codeword Schemes - Precoding (Qualcomm Europe)

Decision: This document was noted.

R1-060510 Twin Turbo Decoder for MIMO Transmission (KDDI)

Decision: This document was noted.

Control channels needed for DL MIMO

R1-060455 Control Channel Issues for DL MIMO (Qualcomm Europe)

Decision: This document was noted.

**R1-060662 Performance comparison between rate-1 codes for 4 Tx antennas case
(Nortel)**

Decision: This document was noted.

E-MBMS multiple tx antennas

R1-060339 MIMO for E-MBMS (Samsung)

Decision: This document was noted.

R1-060340 Text Proposal on MIMO for E-MBMS (Samsung)

**R1-060717 Text Proposal on MIMO for E-MBMS
(Samsung, TI) (Revision of R1-060340)**

Decision: This document was noted.

R1-060429 Impact of TX diversity on MIMO E-MBMS (Texas Instruments)

Decision: This document was noted.

Mode adaptation

R1-060282 On open loop MIMO with 4 Tx antennas (Nokia)

Decision: This document was treated at LTE MIMO teleconference and noted.

R1-060284 MIMO Link adaptation for DL and UL E-UTRA (Nokia)

Decision: This document was treated at LTE MIMO teleconference and noted.

Not treated

**R1-060511 Adaptive MIMO transmission mode selection for E-UTRA downlink
(CCL/ITRI)**

R1-060609 Selection of LDC codes for MIMO LTE (Siemens)

R1-060647 DL Adaptive STTD/SM Performance Evaluation for E-UTRA (Nortel)

Feedback scheme

R1-060422 CSI feedback for EUTRA MIMO (RITT, CATT, SHRCWC)

R1-060528 Interference-aware MIMO mode adaptation (Intel Corporation)

R1-060529 Interference-aware MIMO feedback: a text proposal (Intel Corporation)

R1-060660 Differential Encoding/Decoding for An Arbitrary Codebook (Nortel)

R1-060661 Error Free Encoder for a Differential Code (Nortel)

**R1-060668 Uplink sounding for obtaining MIMO channel information at Node B in
EUTRA (Alcatel)**

Withdrawn

R1-060648 Closed loop MIMO for E-UTRA DL (Nortel)

R1-060285 Closed loop DL MIMO (Nokia)

R1-060423 Some Simulation Results for OOC Space Time Diversity Scheme (SHRCWC)

**13.1.3 Remaining downlink issues from the January Ad Hoc on LTE that
need to be resolved**

Interference coordination

R1-060534 Further aspects of interference coordination (LG Electronics)

14/02/2006 09:15 Presented by Dr. Joon Kui Ahn

Decision: This document was noted.

Decision: This document was noted.

Decision: This document was noted. The text proposal was revised in R1-060702.

Decision: This text proposal was agreed.

Decision: This document was noted.

Decision: This document was noted.

Decision: This document was noted.

Decision: This document was noted.

Discussion (Question / Comment):

Christian G. Gerlach. from France Telecom commented that the requirement on channel estimation is already available in R1-060702 so that it should be deleted

Nicholas Anderson commented that this requirement is not for general case, just for IDMA

Decision: The text proposal was revised to leave out point3 and focus other points on IDMA in R1-060703.

R1-060703 Revised TP on downlink inter-cell interference cancellation
(RITT, Huawei, CATT)

17/02/2006 15:56 Presented by Mr. Mr. Wenyu Li.

Discussion (Question / Comment):

Erik Dahlman from Ericsson pointed out on wording problem

Decision: This text proposal was revised in R1-060749 for e-mail approval until 24th February.

R1-060749 Revised TP on downlink inter-cell interference cancellation
(RITT, Huawei, CATT)

Decision: This text proposal was approved in E-mail reflector.

R1-060416 Combining Inter-cell-interference co-ordination/avoidance with cancellation in downlink and TP
(RITT, Huawei, CATT)

14/02/2006 14:00 Presented by Mr. Gaoke Du from Huawei.

Discussion (Question / Comment):

Erik Dahlman from Ericsson asked if the cancellation and coordination is for same RB. Gaoke Du answered yes.

Mr. RAN1 Chairman commented that we don't need to have new section for the combination technique because TR already describes each technique sufficiently, This stage is still SI.

Decision: This document was noted.

R1-060417 On generation and allocation of interleaver patterns for interleaver-division multiple access
(RITT)

14/02/2006 11:15 Presented by Mr. Gaoke Du from Huawei.

Discussion (Question / Comment):

Erik Dahlman from Ericsson asked on the section 9 of text proposal on section 9 why cell specific, not user specific.

Christian G. Gerlach from Alcatel asked if the coordination is within or cross RB. The answer is inside.

Decision: This text proposal was agreed with addition of "user/cell specific..." for the text in section 9.

R1-060466 Inter-cell Interference Suppression in E-UTRA Downlink
(Qualcomm Europe)

14/02/2006 11:25 Presented by Mr. Juan Montojo

Discussion (Question / Comment):

Erik Dahlman from Ericsson asked if there are two different randomizations on this proposal. Juan Montojo answered yes that's right.

Farooq Khan from Samsung commented on the potential benefit of scrambling for randomization and asked about the probability of transmitting the same information in same time and same frequency from interfering cells. The answer was that this probability may be very low.

Decision: This document was noted.

R1-060467 Inter-cell Interference Mitigation on E-UTRA Downlink
(Qualcomm Europe)

14/02/2006 11:35 Presented by Dr. Durga Malladi.

Discussion (Question / Comment):

Aris Papasakellariou from TI commented that Dynamic and semi-static is just wording issue and the important point is what kind of measurement do we need in RAN1 and then I don't think any more signalling in RAN1.

Stefan from Ericsson that semi-static and dynamic are depending on time scale so that should keep the time scale consideration.

Decision: This document was noted.

R1-060578 E-UTRA downlink scrambling
(Ericsson)

14/02/2006 11:55 Presented by Dr. Erik Dahlman

Discussion (Question / Comment):

Matthew Baker from Philips commented that the scrambling is related to modulation so that need any kind of mechanism.

Sarah from Nortel commented that DL scrambling is not difficult but it's really sufficient

Decision: This document was noted.

R1-060579 E-UTRA downlink scrambling, text proposal
(Ericsson)

14/02/2006 11:58 Presented by Dr. Erik Dahlman

Discussion (Question / Comment):

Decision: This TP was not agreed.

R1-060517 Further analysis of the performance of inter-cell interference mitigation with beam-forming (CATT)

14/02/2006 14:05 Presented by Mr. Tang Hai

Discussion (Question / Comment):

Amitava Ghosh from Motorola asked if Tx antenna is 8 and what kind of beamforming is assumed, Tahg Hai answered that 8 Tx dynamic beamforming.

Erik Dahlman raised a concern that what kind of purpose the text proposal is for and he don't understand really.

Mr. Chairman commented that this topic is already covered in this morning discussion and we don't need new text.

Decision: This document was noted.

R1-060518 TP for combining beam-forming with other inter-cell interference mitigation approaches (CATT, RITT)

14/02/2006 14:15 Presented by Mr. Tang Hai from CATT

Discussion (Question / Comment):

Decision: This text proposal was not agreed.

R1-060545 Some Clarifications on Soft Frequency Reuse Scheme (Huawei, RITT)

14/02/2006 14:20 Presented by Mr. Gaoke Du from Huawei

Discussion (Question / Comment):

Decision: This document was noted.

R1-060666 System Simulation Results for Downlink Interference Coordination (Alcatel)

R1-060689 System Simulation Results for Downlink Interference Coordination (Alcatel)

14/02/2006 12:10 Presented by Dr. Christian G. Gerlach.

Discussion (Question / Comment):

Aris Papasakellariou from TI, Durga Malladi from Qualcomm and Amitava Ghosh from Motorola raised a concern on the results of Table1

Mr. RAN1 Chairman asked if what is the reason for assuming the resource block is 15 and he don't see any reason in this contribution.

Erik Dahlman from Ericsson mentioned that RB 25 is enough for all interference coordination scheme.

Decision: This document was noted.

After the discussion on the above contributions, Mr. RAN1 Chairman made a skeleton summary for pointing out information to RAN3 and suggested drafting session for DL/UL interference mitigation and Reply LS to RAN3.

Summary of discussion (Chairman note) Way forward

- All schemes described in 7.1.2.6 of the TR are still considered for the study
 - Not all combinations of the schemes are sensible
- Combinations of the different schemes that should be studied
 1. ...
 2. ...
 3. ...
- Schemes that do not require inter-cell coordination through higher layers
 - ...
- Schemes that do require inter-cell coordination through higher layers
 - ...

UE bandwidth, UE capability

R1-060290 EUTRA UE bandwidth capability (Nokia)

16/02/2006 14:30 Presented by Mr. Markku Tarkiainen

Discussion (Question / Comment): Ericsson, Samsung, Motorola, Qualcomm, NEC and LGE supported to UE minimum bandwidth 10MHz.

Decision: This document was noted.

R1-060382 Downlink UE Capability (Motorola)

16/02/2006 14:45 Presented by Mr. Jean-Aicard Fabien

Discussion (Question / Comment):

Mr. Chairman commented that the description regarding the coding and the number of Rx antenna is premature.

Some discussion on the number of minimum antenna continued.

Tim Mousley from Philips commented that two Rx antenna should be the reference case, but the standard should not prevent the use of UE's with single antenna. Adam Pollard from Vodafone also commented that we should consider 2 Rx antennas as working assumption in the SI stage. Durga Malladi from Qualcomm Europe commented that we had better clarify the MIMO 2 antenna for evaluation. To these comments, Mr. RAN1 chairman clarify that it's not requirement we don't specify it this stage. Juho Lee from Samsung (MIMO Ad Hoc Chairman) supported to Mr. RAN1 Chairman.

Decision: This document was noted.

R1-060602 Scalable bandwidth and UE capability (NEC Group)

16/02/2006 09:15 Presented by Mr. Thanh Bui.

Discussion (Question / Comment):

Decision: This document was noted.

Conclusion:

UE Minimum supported bandwidth for DL reception and UL Transmission is 10MHz.

R1-060733 Scalable bandwidth and UE capability (Ericsson)

17/02/2006 15:30 Presented by Dr. Erik Dahlman

Discussion (Question / Comment):

Decision: This text proposal was agreed without "e.g."

Not Treated

R1-060316 UE Capability in E-UTRA Downlink (NTT DoCoMo , Fujitsu, Sharp, Toshiba Corporation)

R1-060439 Downlink UE bandwidth capability (ETRI)

R1-060468 DL UE capability: RF and Baseband Limitations (Qualcomm Europe)

Measurements

R1-060442 OFDMA Downlink Physical Layer Measurements - Text proposal (Nokia)

14/02/2006 17:25 Presented by Mr. Asbjorn Grovlen.

Discussion (Question / Comment):

Mr. Chairman commented that this contribution is a good stating for considering the measurements and it might be better to look at OFDM SI.

Samsung raised a concern on the implementation issue on the intra and intra and inter frequency neighbour measurements.

Decision: This text proposal was revised in R1-060707.

R1-060707 OFDMA Downlink Physical Layer Measurements - Text proposal (Nokia, Ericsson)

This contribution was revised to R1-060742 merged with R1-060721.

R1-060501 Band Information measurement at the Network Side (ZTE) (Resubmission of R1-060120)

14/02/2006 17:40 Presented by Mr. Zhisong Zuo

Discussion (Question / Comment):

Decision: This document was noted.

R1-060665 Text proposal for TR 25.814, Section 7.3.3.1, UE measurements (Alcatel)

14/02/2006 17:45 Presented by Dr. Christian G. Gerlach.

Discussion (Question / Comment):

Nokia commented that they have already specify the exact measurement in other document.

Mr. RAN1 Chairman asked what is the list (list of strong interferes), it's such like top 2 and 3. Christian answered that it's the same as HO measurements.

As for the interaction to Nokia text proposal, Alcatel proposal is decided to be revised separately.

Decision: This text proposal was revised in R1-060721.

R1-060721 Text proposal for TR 25.814, Section 7.3.3.1, UE measurements (Alcatel)

This contribution was revised to R1-060742.

R1-060742 OFDMA Downlink Physical layer measurements – text proposal (Nokia, Ericsson, Alcatel, Samsung)

17/02/2006 16:00 Presented by Dr. Vijay Nangia.

Discussion (Question / Comment):

Thanh Bui from NEC and Sarah from Nortel raised a concern on "within a band where the common channels of the target cell "

Decision: It was decided to revise again to R1-060750 for email approval until 24th February.

R1-060750 OFDMA Downlink Physical layer measurements – text proposal
(Nokia, Ericsson, Alcatel, Samsung)

Decision: On the email discussion, the text proposal was revised in R1-060757.

R1-060757 OFDMA Downlink Physical layer measurements – text proposal (Nokia)

Decision: This text proposal was agreed.

Not treated

Cell search, BCH, Paging Channel

- R1-060289 EUTRA Cell Search for initial synchronization and neighbor cell identification**
(Nokia)
- R1-060308 Text Proposal on Cell Search in E-UTRA(1): Radio Frame Structure**
(NTT DoCoMo, Ericsson, Fujitsu, Mitsubishi Electric, Motorola, NEC, Panasonic, Sharp, Siemens, Toshiba)
- R1-060309 Text Proposal on Cell Search in E-UTRA(2): Sub-frame Structure**
(NTT DoCoMo, Ericsson, Fujitsu, Mitsubishi Electric, NEC, Nokia, Panasonic, Sharp, Siemens, Toshiba)
- R1-060310 Text Proposal on Cell Search in Evolved UTRA(3): Frequency Domain Structure and Basic Cell Search Procedure**
(NTT DoCoMo , Ericsson, Fujitsu, Mitsubishi Electric, Motorola, NEC, Panasonic, Sharp, Toshiba)
- R1-060311 SCH Structure and Cell Search Method for E-UTRA Downlink**
(NTT DoCoMo , NEC, Sharp)
- R1-060312 Cell Search Method for MIMO Node B in E-UTRA Downlink**
(NTT DoCoMo , Fujitsu, Mitsubishi Electric, NEC, Sharp)
- R1-060313 Cell Search Method for Connected and Idle Mode in E-UTRA Downlink**
(NTT DoCoMo , Fujitsu, NEC, Panasonic, Toshiba Corporation)
- R1-060327 Non-hierarchical cell search for E-UTRA (Huawei)**
- R1-060341 Cell search and related physical channel mapping (Samsung)**
- R1-060342 Text proposal on cell search and related physical channel mapping**
(Samsung)
- R1-060358 Considerations on E-UTRA Cell Search and Initial Access (Siemens)**
- R1-060367 Considerations on SCH for Cell Search in E-UTRA (InterDigital)**
- R1-060379 Cell Search and Initial Acquisition for EUTRA (Motorola)**
- R1-060426 Cell Search Scheme for EUTRA (ETRI)**
- R1-060427 Text Proposal for Cell Search and SCH Structure (ETRI)**
- R1-060431 Aspects and Design of DL SYNC channel (SCH) for E-UTRA**
(Texas Instruments)
- R1-060432 Timing and cell-specific info detection in cell search procedure for E-UTRA**
(Texas Instruments)
- R1-060436 Comparison of Cross-correlation-based and Auto-correlation-based SCH Structures for Timing Detection for E-UTRA**
(NTT DoCoMo , NEC, Toshiba Corporation)
- R1-060443 Downlink cell search design for E-UTRA TDD (TD Tech)**
- R1-060500 Cell search scheme for Evolved UTRA**
(ZTE) (Resubmission of R1-060117)
- R1-060465 DL Acquisition for E-UTRA (Qualcomm Europe)**

R1-060516	Cell Search procedure of EUTRA TDD system for the initial synchronization (CATT, RITT)
R1-060650	Cell search / Synchronization channel design for E-UTRA (Nortel)
R1-060651	TP for Cell search / Synchronization channel design for E-UTRA (Nortel)
R1-060640	Downlink Synchronisation Signal Placement (IPWireless)
R1-060302	Broadcast Channel Structure for E-UTRA Downlink (NTT DoCoMo , Fujitsu, Mitsubishi Electric, NEC, Panasonic, Sharp, Toshiba Corporation)
R1-060303	Paging Channel Structure for E-UTRA Downlink (NTT DoCoMo , Fujitsu, Mitsubishi Electric, NEC, Toshiba Corporation)
R1-060576	Paging for E-UTRA (Ericsson)
R1-060577	Text Proposal on E-UTRA Paging (Ericsson)

Channel Coding

R1-060314	Performance Comparison between Turbo Code and LDPC Code for Shared Data Channel in E-UTRA Downlink (NTT DoCoMo , NEC, Sharp, Toshiba Corporation)
R1-060334	LTE channel coding (Samsung)
R1-060383	EUTRA FEC Enhancements (Motorola)
R1-060384	LDPC codes for EUTRA (Motorola)
R1-060499	Structured LDPC Coding with Rate Matching (ZTE) (Resubmission of R1-060115)
R1-060505	Text Proposal for Channel coding (CATT, China Mobile, LG Electronics, Mitsubishi Electric Corporation, RITT, Huawei, ZTE, Motorola, Samsung)
R1-060508	Further Information on Twin Turbo Decoder (KDDI)
R1-060562	Extension of UTRA turbo channel coding for rates less than 1/3 (Fujitsu)

MBMS

R1-060304	MBMS Channel Structure for E-UTRA Downlink (NTT DoCoMo , Panasonic, Sharp)
R1-060347	Multiplexing of Broadcast and Unicast Traffic (Samsung)
R1-060372	Multiplexing of Unicast Pilot and Control Channels in E-MBMS for EUTRA Downlink (Texas Instruments)
R1-060380	Localized Transmission for E-MBMS (Motorola)
R1-060463	Multiplexing DL Multicast and Unicast Transmissions (Qualcomm Europe)
R1-060527	MBMS Channel Structure for Evolved UTRA (Toshiba Corporation)
R1-060544	Consideration on MBMS frame structure (Huawei)
R1-060547	MBMS service Multiplexing (Huawei)
R1-060548	Further Consideration on Multiplexing of Unicast and MBMS (Huawei)
R1-060574	MBMS for E-UTRA (Ericsson)
R1-060575	Text proposal E-UTRA MBMS (Ericsson)

Others

R1-060286	Resource block allocation - mapping rules (Nokia)
R1-060288	OFDMA Downlink L1/L2 control signalling (Nokia)
R1-060300	Orthogonal Pilot Channel Structure for Sectorized Beams in E-UTRA Downlink (NTT DoCoMo , Fujitsu, Mitsubishi Electric, NEC, Sharp)
R1-060301	L1/L2 Control Channel Structure for E-UTRA Downlink (NTT DoCoMo , Ericsson, Fujitsu, Mitsubishi Electric, NEC, Panasonic, Sharp, Toshiba Corporation)

- R1-060305** **Distributed FDMA Transmission for Shared Data Channel in E-UTRA Downlink** (NTT DoCoMo , Ericsson, Fujitsu, Mitsubishi Electric, NEC, Nokia, Panasonic, Sharp, Toshiba)
- R1-060306** **Link Adaptation Scheme for Single-antenna Transmission in E-UTRA Downlink** (NTT DoCoMo , Ericsson, Fujitsu, Intel, Mitsubishi Electric, NEC, Panasonic, Sharp, Toshiba)
- R1-060307** **Link Adaptation Scheme for MIMO Transmission in E-UTRA Downlink** (NTT DoCoMo , Ericsson, Fujitsu, Mitsubishi Electric, NEC, Panasonic, Sharp, Toshiba Corporation)
- R1-060315** **Mappings between Transport Channels and Physical Channels for E-UTRA Downlink** (NTT DoCoMo , Fujitsu, Sharp, Toshiba Corporation)
- R1-060343** **Text proposal on downlink ACK channel** (Samsung)
- R1-060344** **Rules for mapping VRBs to PRBs** (Samsung)
- R1-060345** **Text proposal on rules for mapping VRBs to PRBs** (Samsung)
- R1-060346** **Link Adaptation Considerations for Evolved UTRA Downlink and Text Proposal** (Samsung)
- R1-060371** **EUTRA Downlink Unicast Pilot Frequency Spacing Considerations** (Texas Instruments)
- R1-060378** **E-UTRA Downlink Control Channel Structure and TP** (Motorola)
- R1-060381** **Frequency Domain Scheduling for E-UTRA** (Motorola)
- R1-060396** **Downlink Localized and Distributed Multiplexing** (Motorola)
- R1-060400** **Resource Allocation mapping rules and TP** (Motorola)
- R1-060402** **CSD and STBC performance** (Motorola)
- R1-060434** **Performance Evaluation of Candidate Pilot Channel Structures for MBMS Channel in E-UTRA** (NTT DoCoMo , Mitsubishi Electric, Panasonic, Sharp)
- R1-060435** **Comparison of Flexibility between Synchronous and Asynchronous Hybrid ARQ for E-UTRA Downlink** (NTT DoCoMo , Fujitsu, Mitsubishi Electric, NEC, Sharp)
- R1-060461** **DL PHY channels - Overall structure** (Qualcomm Europe)
- R1-060462** **DL PHY channels - Channel Multiplexing** (Qualcomm Europe)
- R1-060464** **RV and Modulation Order for Synchronous HARQ in Downlink** (Qualcomm Europe)
- R1-060498** **Downlink Control Channel Design for Evolved UTRA** (ZTE) (Resubmission of R1-060119)
- R1-060506** **Text Proposal for Enhanced Modulation Scheme for OFDMA** (KDDI)
- R1-060507** **Further Evaluation of R-OFDM** (KDDI)
- R1-060556** **Mapping between higher-layer PDUs and resource blocks in E-UTRA** (Philips)
- R1-060557** **Text proposal for mapping between higher-layer PDUs and resource blocks in E-UTRA** (Philips)
- R1-060558** **Frequency-distributed transmission in E-UTRA downlink** (Philips)
- R1-060563** **Channel Design and Long CP Sub-frame Structure for Initial Cell Search** (Fujitsu)
- R1-060573** **E-UTRA DownlinkControl Signaling - Overhead Assessment** (Ericsson, NTT DoCoMo)
- R1-060580** **Frequency-domain power adaptation** (Ericsson, NTT DoCoMo)
- R1-060601** **Scalable band width & Physical channel mapping for L1/L2 control channel** (NEC Group, NTT DoCoMo)
- R1-060607** **Downlink resource multiplexing** (Siemens)
- R1-060642** **Further discussion and initial simulation results for super-imposed reference symbols for E-UTRA downlink** (Philips)

R1-060645	Further evaluation of pilot channel allocation	(Nortel)
R1-060646	Update of MIMO and HARQ interactions	(Nortel)
R1-060649	Resource block allocation for downlink data transmission for E-UTRA	(Nortel)

Withdrawn

R1-060287	Downlink Link Adaptation - Power Allocation	(Nokia)
R1-060496	Link-Level Simulation Results for SINR and SIR Measurements using Sync Channel	(ETRI)
R1-060497	Text Proposal on SINR Measurement	(ETRI)

13.2 Description of SC-FDMA Uplink used in the concept evaluation

13.2.1 Contributions reflecting results from email reflector discussions

13.2.2 Basic Transmission Scheme

R1-060420 Offset DFT-Spread OFDM with Generalized Raised-Cosine Filters for Pulse Shaping (RITT, CATT, SHRCWC)

16/02/2006 12:10 Presented by Dr. Shaohui Sun

Discussion (Question / Comment):

Erik Dahlman from Ericsson commented that he had some problems on the text proposal and he don't think any benefit by the other PAPR reduction scheme in addition to modulation approach

Decision: This document was noted.

R1-060519 Numerology of EUTRA TDD co-existing with UTRA TDD LCR Uplink based on SC-FDMA and text proposal for TR 25.814 (CATT, TD-TECH, RITT)

16/02/2006 12:20 Presented by Mr. Wang Ke from CATT

Discussion (Question / Comment):

Decision: This text proposal was agreed.

R1-060535 Downlink/uplink transmission with a scalable bandwidth (LG Electronics)

16/02/2006 12:25 Presented by Dr. Joon Kui Ahn

Discussion (Question / Comment):

Erik Dahlman from Ericsson raised a concern on UE capability that the minimum UE capability should be 10MHz not 5MHz.

Decision: It was decided to discuss further with other papers on UR capability.

R1-060581 Uplink Scrambling for E-UTRA (Ericsson)

16/02/2006 14:00 Presented by Dr. Stefan Parkvall

Discussion (Question / Comment):

Asbjorn Grovlen from Nokia commented that we don't think any gain on scrambling

Christian G Gerlach from Alcatel commented that from viewpoint of the interference coordination UE specific scrambling is not good because it difficult for Node B to know the neighbour cell. Ericsson commented that we don't think that it's major issue.

Durga Malladi from Qualcomm supported to this proposal and commented that the possibility of FH should be included in text proposal.

Gaoke Du from Huawei raised a concern on removing IDMA because RITT delegates supporting IDMA don't come here due to US Visa issue so that he suggested e-mail approval for the text proposal.

Decision: This document was noted.

R1-060582 Text proposal on UE-specific uplink scrambling (Ericsson, NTT DoCoMo)

Decision: This document was noted with R1-060581.

R1-060600 UL/DL idle symbol suppression in half duplex communications (Mitsubishi Electric, IPWireless)

16/02/2006 14:15 Presented by Dr. Loïc Brunel from Mitsubishi Electric.

Discussion (Question / Comment):

Decision: This text proposal was agreed.

Withdrawn

R1-060424 Comparison of PAPR/CM Performance of DFT-S-GMC with Clustered DFT-S-OFDM (SHRCWC)

R1-060425 Initial Performance of DFT-S-GMC with Real Channel Estimation (SHRCWC)

13.2.2.1 Modulation Scheme

- R1-060293 UL Modulation scheme (Nokia)**
16/02/2006 09:20 Presented by Mr. Jari Lindholm.
Discussion (Question / Comment):
Ericsson, Huawei, and T-Mobile supported to this proposal.
Samsung and Motorola raise a concern on the proposal and Motorola suggested to modify the text proposal "including pi/2 and 8PSK, could also be considered"
Mr. RAN1 Chairman commented that he is a little bit confused because this is study item, but some company start to investigate the pi/2 BPSK.
Decision: This text proposal was revised in R1-060730.
- R1-060730 Revised Text proposal UL Modulation scheme (Nokia)**
17/02/2006 16:07 Presented by Mr. Jari Lindholm.
Discussion (Question / Comment):
Decision: This text proposal was agreed.
- R1-060329 Cubic metric performances of optimum spectrum-shaping functions for PAPR reduction (Huawei)**
16/02/2006 09:40 Presented by Dr. Oskar Mauritz
Discussion (Question / Comment): This contribution was moved from section 13.2.2.4
Decision: This text proposal was agreed.
- R1-060317 Comparisons on 16QAM Modulation Schemes for E-UTRA Uplink (NTT DoCoMo, Ericsson, Fujitsu, Mitsubishi Electric, NEC, Panasonic, Sharp, Toshiba Corporation)**
16/02/2006 09:45 Presented by Dr. Mamoru Sawahashi.
Discussion (Question / Comment):
Qualcomm supported to this contribution.
Decision: This document was noted.
- R1-060471 Circular 16QAM: PAR and Link issues (Qualcomm Europe)**
Decision: This document was noted.
- R1-060318 Optimum Roll-off Factor for DFT-Spread OFDM Based SC-FDMA in Uplink (NTT DoCoMo)**
16/02/2006 09:55 Presented by Dr. Mamoru Sawahashi.
Discussion (Question / Comment):
Some companies commented that the roll off factor could changing on the number of subcarrier, that is bandwidth and user condition. NTT DoCoMo commented that they would like to consider this issue and more beneficial scheme.
Decision: This document was noted.
- R1-060470 PAR Reduction through Frequency Domain Spectrum Shaping (Qualcomm Europe)**
16/02/2006 10:20 Presented by Dr. Durga Malladi.
Discussion (Question / Comment):
Decision: This document was noted.
- R1-060669 SC-FDMA PAPR Reduction (Siemens)**
- R1-060720 SC-FDMA PAPR Reduction (Siemens)**
16/02/2006 11:25 Presented by Dr. Juergen Michel.
Discussion (Question / Comment):
Erik Dahlman raised a concern on section 9.1.1 in the text proposal 9.1.1
Motorola proposed that they have the text proposal for the same topic in R1-060392 and 386 and then those documents were treated.
Decision: This document was revised in R1-060731 with including some parts of Motorola paper, R1-060392. Also the joint text proposal on variable roll-off, FFT- pre-processing in R1-060732.
- R1-060731 Text Proposal on SC-FDMA PAPR Reduction (Siemens)**
- R1-060734 Text Proposal on SC-FDMA PAPR Reduction (Siemens, Motorola, Ericsson, Qualcomm, NTT DoCoMo) (Revision of R1-060731)**
17/02/2006 16:09 Presented by Dr. Erik Dahlman on be half of Siemens
Discussion (Question / Comment):

Decision: This text proposal was agreed. After the agreement, it is clear that the sentence “Different spectrum shaping functions should be further studied and optimized for different uplink modulation formats considered” has been deleted while it was not marked as deleted so that the rapporteur undo the sentence when he input it into TR.

R1-060732 Text Proposal on SC-FDMA PAPR Reduction (Motorola)

17/02/2006 61:10 Presented by Dr. Amitava Ghosh.

Discussion (Question / Comment):

Decision: This text proposal was agreed.

R1-060386 Text proposal for replacing "PAPR" with "Power De-rating" in 25.814 (Motorola)

16/02/2006 11:45 Presented by Mr. Robert Love.

Discussion (Question / Comment): With related to the text proposal in R1-060720, this document was moved from section 13.2.3.4

Decision: This document was noted.

R1-060392 PA power de-rating reduction scheme for DFT-SOFDM and TP (Motorola)

16/02/2006 11:47 Presented by Mr. Robert Love.

Discussion (Question / Comment): With related to the text proposal in R1-060720, this document was moved from section 13.2.3.4

Wes McCoy from Freescale semiconductor pointed out that EVM evaluation should be considered. Motorola commented that yes they agree but the main point on this contribution is applying to QPSK.

Thanh Bui from NEC asked if this apply just to FFT not DFT. The answer was that I don't have to DFT

Juho Lee from Samsung commented that the value in table 1 is curiosity. Also Durga Malladi raised a concern on the data and suggested the off-line discussion.

Decision: Some parts of text proposal were included in R1-060730 revised from R1-060720.

Withdrawn

R1-060366 Rate Matching Using Mixed Modulation Method (InterDigital)

13.2.2.2 Reference-Signal Structure

Not Treated

- | | | |
|------------------|--|--|
| R1-060294 | UL Reference Signal Structure | (Nokia) |
| R1-060319 | Orthogonal Pilot Channel Structure for E-UTRA Uplink | (NTT DoCoMo , Fujitsu, Mitsubishi Electric, NEC, Panasonic, Sharp, Toshiba Corporation) |
| R1-060373 | Comparison of Proposed Uplink Pilot Structures for SC-OFDMA | (Texas Instruments) |
| R1-060374 | Text Proposal for Uplink Reference Signal Structure | (Texas Instruments) |
| R1-060388 | Performance Comparison of Pilot/Reference Signal Structures for E-UTRA Uplink SC-FDMA | (Motorola) |
| R1-060390 | E-UTRA SC-FDMA Uplink Pilot/Reference Signal Design & TP | (Motorola) |
| R1-060472 | Link Analysis of Uplink CQI Channel | (Qualcomm Europe) |
| R1-060473 | Link Analysis of Uplink ACK Channel | (Qualcomm Europe) |
| R1-060474 | Uplink Broadband Pilot Structure | (Qualcomm Europe) |
| R1-060502 | Uplink Reference signal and Uplink Timing Control | (ZTE) (Resubmission of R1-060122) |
| R1-060504 | A Proposal of Group Distributed Allocation with CAZAC Pilots for Uplink | (ZTE) |
| R1-060522 | Further clarifications of the reference signal requirement for downlink dynamic beam-forming and pre-coding in TDD mode | (CATT, RITT) |
| R1-060537 | Uplink pilot for channel quality measurement | (LG Electronics) |
| R1-060542 | Multiplexing of uplink reference signals | (Huawei) |

R1-060543 TP on uplink reference signals structure (Huawei)
R1-060564 Considerations on CAZAC Reference-Signal for E-UTRA Uplink (Fujitsu)
R1-060603 Considerations on Uplink Pilot Design Using CAZAC (NEC Group)

Withdrawn

R1-060658 Text proposal on orthogonal pilots to support multi-user MIMO for SC-FDMA (Nortel)

13.2.2.3 L1/L2 Control Signalling (Scheduling, Link Adaptation, HARQ, etc.)

Not Treated

R1-060320 L1/L2 Control Channel Structure for E-UTRA Uplink
(NTT DoCoMo, NEC, Sharp, Toshiba Corporation)
R1-060348 L1/L2 Control Signalling Multiplexing in Evolved UTRA Uplink
(Samsung)
R1-060364 Scheduling and Multiplexing of CQI and ACK/NACK Feedback for Single
Carrier FDMA in Evolved UTRA Uplink (InterDigital)
R1-060375 Text Proposal for Downlink CQI Reporting Timing for EUTRA
(Texas Instruments)
R1-060403 E-UTRA Uplink Control Channel Design and TP (Motorola)
R1-060475 UL Scheduling (Qualcomm Europe)
R1-060476 Need for Data Associated Control in E-UTRA Uplink (Qualcomm Europe)
R1-060503 Uplink Timing Control Signal resource allocation
(ZTE) (Resubmission of R1-060121)
R1-060536 Uplink resource request for uplink scheduling (LG Electronics)
R1-060538 Text proposal on uplink pilot for channel quality measurement
(LG Electronics)
R1-060539 L1/L2 collaborated signaling for delivering CQI feedback information
(LG Electronics)
R1-060559 HARQ signalling considerations for E-UTRA (Philips)
R1-060583 E-UTRA Uplink Control Signaling - Overhead Assessment
(Ericsson, NTT DoCoMo)
R1-060606 Downlink signalling for uplink scheduling (Siemens)

13.2.2.4 Channel coding and physical channel mapping

R1-060321 Mappings between Transport Channels and Physical Channels for E-UTRA
Uplink (NTT DoCoMo, Fujitsu, Panasonic, Sharp, Toshiba Corporation)

15/02/2006 09:25 Presented by Dr. Mamoru Sawahashi from NTT DoCoMo

Discussion (Question / Comment):

Stefan Parkvall from Ericsson commented that regarding random access transport channel, the discussion on RACN section should be considered.

Decision: This document was noted

R1-060349 LFDMA and DFDMA multiplexing in evolved UTRA uplink and text proposal
(Samsung)

15/02/2006 09:30 Presented by Mr. Yongjun Kwak.

Discussion (Question / Comment):

Durga Malladi from Qualcomm asked if on simulation what kind of FH is assumed.

Christian from Alcatel commented that considering the interference coordination, Time multiplexing of distributed and Localised is not possible. Samsung commented that always not impossible, some band is not interfered.

Huawei commented on the HARQ issue for this scheme.

Decision: This document was noted

R1-060540 Performance of localized and distributed SC-FDMA (LG Electronics)
R1-060690 Performance of localized and distributed SC-FDMA (LG Electronics)

15/02/2006 09:50 Presented by Dr. Joon Kui Ahn

Discussion (Question / Comment):

Diptendu Mitra from NEC commented that in your simulation one user assumed but if multi-user case the performance is getting worse in DFDMA.

Durga Malladi commented that the proposal is the mix proposal of L and DFDMA but by the current localised Eddy Kwon from Samsung the performance is depending on channel estimation. LGE commented that they agree to Samsung and optimised channel estimation could improve.

Decision: This document was noted

R1-060399 Test proposal for frequency mapping for uplink physical Channel (Motorola)

14/02/2006 09:05 Presented by Dr. Amitava Ghosh

Discussion (Question / Comment):

Decision: This text proposal was agreed.

R1-060292 Multiplexing between D-FDMA and L-FDMA (Nokia)

15/02/2006 11:55 Presented by Mr. Asbjorn Grovlen

Discussion (Question / Comment):

Stefan Parkvall from Ericsson commented that text proposal is exclusive frequency domain, frequency and time domain combination is possible. Asbjorn Grovlen commented that yes test proposal is not good.

Decision: This document was noted

R1-060604 Performance of CAZAC pilot sequence for D-FDMA and L-FDMA with frequency hopping for EUTRA Uplink (NEC Group)

15/02/2006 12:05 Presented by Mr. Diptendu Mitra.

Discussion (Question / Comment):

Decision: This document was noted

R1-060469 Link Analysis of Uplink Interleaved and Localized FDM Waveforms (Qualcomm Europe)

15/02/2006 12:15 Presented by Dr. Durga Malladi.

Discussion (Question / Comment): Move from 13.2.2.1

Joon Kui Ahn from LGE asked how the equalizer on the simulation is. The answer was space frequency equalizer.

Erik Dahlman from Ericsson asked how duration FH is on Fig. 2 and 3. The answer was TTI base.

Decision: This document was noted

R1-060377 Uplink Throughput Comparison of Localized and Distributed SC-FDMA (Texas Instruments)

15/02/2006 12:30 Presented by Mr. Pierre Bertrand

Discussion (Question / Comment): This contribution was move from 13.2.3.2.

Decision: This document was noted

Resource Unit

R1-060350 Text proposal on resource unit (Samsung)

15/02/2006 09:15 Presented by Mr. Eddy Kwon

Discussion (Question / Comment):

Christian from Alcatel mentioned that they proposed M=15 in interference coordination contribution. It's the same situation as DL

Durga Malladi from Qualcomm raised a concern on the granularity of RB. Chairman commented that it's in line with DL.

Decision: This text proposal was revised with addition of the sentence about IIC (same as downlink) and inclusion of PRB and VRB with the mapping rules FFS in R1-060718.

R1-060718 Text proposal on resource unit (Samsung)

17/02/2006 16:12 Presented by Dr. Juho Lee

Discussion (Question / Comment):

Next meeting

Decision: This text proposal was agreed.

R1-060389 E-UTRA SC-FDMA Uplink Resource Block, Resource Allocation & TP (Motorola)

15/02/2006 10:20 Presented by Dr. Vijay Nangia.

Discussion (Question / Comment):

Decision: This document was noted

R1-060479 Resource Block Allocation for UL Data Transmission (Qualcomm Europe)

15/02/2006 11:15 Presented by Dr. Durga Malladi.

Discussion (Question / Comment):

Robert Love from Motorola commented that their opinion is the same numerology on UL/DL.

Farooq Khan from Samung supported to the Motorola comment.

Durga Malladi clarified that the proposal has the nice structure for channel estimation and main purpose is for the simulation and the simplicity for analysis, not taking about decision on W1

Mr. RAN1 Chairman mentioned that we try to keep the commonality with DL.

Decision: This document was noted. **It was decided to Assume N=25 for the study (same as downlink).**

R1-060394 Variable TTI for LTE (Motorola)

15/02/2006 11:30 Presented by Mr. Robert Love.

Discussion (Question / Comment):

Sarah Boumendil from Nortel commented that one thing related to higher layer, fragmentation procedure is not clear. Stefan Parkvall from Ericsson commented that it's an interesting proposal and one benefit is the reduction of the OH of MAC, but indicating information for the variable TTI increase the OH

Mr. RAN1 Chairman commented that it's RAN topic and we had better wait fro the output from other WG, so we will discuss it in joint meeting.

Decision: This text proposal was revised in R1-060716.

R1-060716 Variable TTI for LTE TP (Motorola, Ericsson)

17/02/2006 16:15 Presented by Mr. Robert Love.

Discussion (Question / Comment):

The concern was raised on the meaning of "initially" in the last sentence.

Decision: It was decided to revised in R1-060751 for email approval until 24th February

R1-060751 Variable TTI for LTE TP (Motorola, Ericsson)

Decision: On the e-mail discussion, the text proposal was revised in R1-060758.

R1-060758 Variable TTI for LTE TP (Motorola, Ericsson)

Decision: The text proposal was agreed on e-mail reflector.

R1-060477 UL PHY Channels - Overall Structure (Qualcomm Europe)

15/02/2006 14:00 Presented by Dr. Durga Malladi.

Discussion (Question / Comment):

Mr. Chairman commented that we will have discussion in next meting, and had better discuss again about RACH part after discussion on RACH section.

Decision: This document was noted

R1-060478 UL PHY Channels - Channel Multiplexing (Qualcomm Europe)

15/02/2006 14:05 Presented by Mr. Juan Montojo

Discussion (Question / Comment):

Decision: This document was noted

Not Treated

Channel Coding

R1-060360 Duo-Binary Turbo Codes for evolved UTRA (France Telecom, Orange)

R1-060513 UTRA release 6 turbo coding compatible high throughput architecture with low up-gradation cost (CCL/ITRI)

R1-060514 Text Proposal for Channel coding in E-UTRA (CCL/ITRI)

R1-060515 Puncturing effect for the component code of UTRA release 6 turbo coding (CCL/ITRI)

R1-060525 Performance improvement of the rate-compatible LDPC codes (Mitsubishi Electric)

R1-060526 Comparison between Turbo and LDPC codes under the condition of parallel operation (Mitsubishi Electric)

13.2.2.5 Uplink MIMO Scheme used in the concept evaluation

Regarding the discussion and conclusion for the following documents, please see MIMO Ad Hoc Report in R1-060723 and LTE MIMO teleconference Chairman's note in R1-060760.

Generic Discussion

**R1-060437 Consideration on High Level Principles of MIMO Scheme in E-UTRA Uplink
(NTT DoCoMo , NEC, Sharp, Toshiba Corporation)**

Decision: This document was noted.

**R1-060413 Orthogonal Collaborative Spatial Multiplexing (OCSM) for Uplink E-UTRA
(LG Electronics)**

Decision: This document was treated in the MIMO conference call.

**R1-060652 System Level Performance Evaluation for E-UTRA UL with multi-user
MIMO (Nortel)**

Decision: This document was treated at LTE MIMO teleconference.

**R1-060365 Extension of Uplink MIMO SC-FDMA with Preliminary Simulation results
(InterDigital)**

Decision: This document was treated at LTE MIMO teleconference and the text proposal in this document was revised in R1-060761.

**R1-060761 Extension of Uplink MIMO SC-FDMA with Preliminary Simulation results
(InterDigital)**

Decision: Text proposal was agreed on e-mail reflector.

**R1-060444 Text Proposal on Uplink Transmit Antenna Selection for E-UTRA
(Institute for Infocomm Research, Mitsubishi Electric, NTT DoCoMo)**

Decision: This text proposal was treated at LTE MIMO teleconference and was revised in R1-060762.

**R1-060762 Text Proposal on Uplink Transmit Antenna Selection for E-UTRA
(Institute for Infocomm Research, Mitsubishi Electric, NTT DoCoMo)**

Decision: Text proposal was agreed on the RAN1 reflector.

13.2.3 Physical Layer Procedures

13.2.3.1 Random Access Procedure

R1-060296 Random access message – text proposal (Nokia)

16/02/2006 19:20 Presented by Mr. Markku Tarkiainen.

Discussion (Question / Comment):

Decision: This document was noted.

**R1-060699 Inclusion of additional data on RACH
(Panasonic)**

16/02/2006 19:30 Presented by Mr. Daichi Imamura

Discussion (Question / Comment):

Amitava Ghosh from Motorola asked if in fig.2 how ACK corresponding to the preamble is sent. Daichi Imamura answered that UL resource allocation is including the ACK.

Durga, Malladi from Qualcomm asked if there are any preference on option b,c,d. and also how to manage the power setting. Daishi Imamura answered that now there is no preference for b, c, d and they don't discuss about power allocation.

Decision: This document was noted.

**R1-060322 Random Access Channel Structure for E-UTRA Uplink (NTT DoCoMo ,
Fujitsu, Mitsubishi Electric, NEC, Panasonic, Sharp, Toshiba Corporation)**

16/02/2006 19:50 Presented by Dr. Mamoru Sawahashi.

Discussion (Question / Comment):

Markku Tarkiainen asked if FH is inside or outside sub-frame and also how the possibility of more than 5 MHz is. Kenichi Higuchi from NTT DoCoMo answered that they currently consider between TTI level, however the possibility of within TTI could be considered and also as for BW, more than BW can provide more frequency scheduling gain, however the power issue was raised so that the current preference is 5MHz

NTT DoCoMo clarified that this proposal doesn't convey any traffic on message part, it's corresponding to option b in Panasonic proposal.

Durga Malladi from Qualcomm asked if RNTI is used for the first access. Sadayuki Abeta from NTT DoCoMo answered that No, temporary Id transmitted on BCH is used and UE select one Id randomly as similar to WDMA scheme so that the collision happens.

Decision: This document was noted.

Not Treated.

R1-060480	Principles of RACH	(Qualcomm Europe)
R1-060584	E-UTRA Random Access	(Ericsson)
R1-060328	RACH design for E-UTRA	(Huawei)
R1-060351	Physical random access procedure	(Samsung)
R1-060352	Text proposal on physical random access procedure	(Samsung)
R1-060376	RACH preamble design for E-UTRA	(Texas Instruments)
R1-060387	RACH Design for E-UTRA	(Motorola)
R1-060512	Random Access Transmission with Priority in E-UTRA uplink	(CCL/ITRI)
R1-060520	EUTRA TDD Random Access Procedure	(CATT, TD-TECH, RITT)
R1-060531	Some considerations for LTE RACH	(LG Electronics)
R1-060541	Some considerations for random access frame design	(Huawei)
R1-060560	Random Access and UL Sync considerations and discussion of L1 questions from RAN2	(Philips)
R1-060637	Initial Access Procedure and Uplink Synchronisation	(IPWireless)
R1-060653	Consideration on UL RACH scheme for LTE	(Nortel)
R1-060654	Text proposal on random access scheme	(Nortel)
R1-060655	Text proposal on random access procedure and scheduling	(Nortel)
R1-060700	RACH preamble evaluation in E-UTRA Uplink	(Panasonic)

Withdrawn

R1-060585	E-UTRA Random Access – Simulation Results	(Ericsson)
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13.2.3.2 Scheduling

R1-060323 Channel-dependent Scheduling for E-UTRA Uplink
(NTT DoCoMo , Fujitsu, NEC, Panasonic, Sharp)

15/02/2006 14:50 Presented by Dr. Mamoru Sawahashi from NTT DoCoMo

Discussion (Question / Comment):

Eddy Kwon from Samsung asked if minimum BW 1.25 MHz is for only pilot or pilot and Shared CH. The answer is that this contribution motivation is investigation on pilot structure on 1.25MHz data

Joon Kui Ahn from LGE wider BW case 10, 20 MHz because more frequency scheduling gain, The answer that yes the scheduling gain is saturated in 5MHz, but in 10MHz case OH increases and CQI measurement because difficult

Durga Malladi from Qualcomm asked if FH is considered. The answer is no and coming meeting.

Decision: This document was noted.

R1-060353 Uplink scheduling (Samsung)

15/02/2006 15:10 Presented by Ms. Youn Hyoung Heo

Discussion (Question / Comment):

Gaoke Du from Huawei asked if in table 2 why the throughput decrease. Youn Hyoung Heo answered the larger the period is, Node B receive more information and change the scheduling.

Amitava Ghosh from Motorola asked how the outage criteria are. The answer was that in Samsung doesn't apply any outage criteria.

Durga Malladi from Qualcomm asked if regarding power control operation what are you target on closed loop power control. Youn Hyoung Heo answered that closed loop control is line with current WCDMA control.

Decision: This document was noted.

R1-060354 Text proposal on uplink scheduling (Samsung)

15/02/2006 15:30 Presented by Dr. Youn Hyoung Heo

Discussion (Question / Comment):

Decision: This text proposal was agreed.

R1-060657 Orthogonal Multi-User MIMO based Channel-Dependent Scheduling for SC-FDMA on E-UTRA Uplink (Nortel)

15/02/2006 17:20 Presented by Mr. Jiaming Wu

Discussion (Question / Comment):

The question was asked how Pilot structure is FDM or CDM. The answer was that FDM and CDM is possible, it's in line with NTT DoCoMo proposal.

Fukui from Mitsubishi how often should transmit to estimate orthogonarity between UE The answer was depending on UE speed.

Decision: This document was noted.

R1-060295 Channel dependent Scheduling in E-UTRA uplink and Text Proposal (Nokia)

15/02/2006 17:35 Presented by Mr. Asbjorn Grovlen

Discussion (Question / Comment): This document was move from section 13.2.2.3

Stefan Parkvall from Ericsson and Joon Kui Ahn from LGE commented that the second sentence in text proposal should be modified.

Decision: This document was noted.

R1-060482 Subband Scheduling in E-UTRA Uplink (Qualcomm Europe)

15/02/2006 17:40 Presented by Dr. Durga Malladi.

Discussion (Question / Comment):

Decision: This document was noted.

R1-060398 VoIP Group scheduling (Motorola)

15/02/2006 18:00 Presented by Mr. Robert Love.

Discussion (Question / Comment):

Evelyne Le Strat from Nortel raised a concern why this topic is discussed in RAN1. It's for RAN2 not RAN1.

Decision: This document was noted.

R1-060397 VoIP and HARQ for E-UTRA + TP (Motorola)

R1-060698 VoIP and HARQ for E-UTRA + TP (Motorola)(Revision of R1-060397)

15/02/2006 18:15 Presented by Mr. Robert Love.

Discussion (Question / Comment): This document was moved from 13.2.3.5

Durga Malladi from Qualcomm raised a concern that considering the consistency to the current TR, persistent scheduling to VoIP is supported but he doesn't want HARQ to VoIP.

Evelyne Le Strat from Nortel raised a concern on supporting HARQ for VoIP

Matthew Baker asked about parameter of HARQ for VoIP, but the topic is earlier in this stage.

Decision: This text proposal was revised in R1-060722 to capture persistent scheduling text for the uplink.

R1-060722 Scheduling TP (Motorola, Qualcomm)

17/02/2006 16:20 Presented by Mr. Robert Love.

Discussion (Question / Comment):

The concern was raised on "grouping".

Sarah Boumendil from Nortel pointed out that it's a RAN2 topic.

RAN1 Chairman commented that we could discuss with RAN2.

Decision: This text proposal was agreed.

R1-060483 TP on Scheduling for Real Time Services (Qualcomm Europe)

15/02/2006 18:35 Presented by Mr. Juan Montojo

Discussion (Question / Comment):

Farooq Khan from Samsung commented that text proposal is too much detail in signalling in this stage.

Mr. RAN1 Chairman mentioned that shorter text is much better.

Decision: it was decided to include a shortened version of the persistent scheduling description in R1-060722 (and add a pointer in the corresponding DL section)

13.2.3.3 Link Adaptation

R1-060324 Link Adaptation for E-UTRA Uplink (NTT DoCoMo , Ericsson, Fujitsu, NEC, Panasonic, Sharp, Toshiba Corporation)

15/02/2006 18:50 Presented by Dr. Kenichi Higuchi

Discussion (Question / Comment):

Asbjorn Grovlen from Nokia asked if it's SIR based or SNR based. The answer was that this document was SINR based because it's so difficult to distinguish the interference and noise,

Decision: It was revised to R1-060724 with merge of the text from R1-060355.

R1-060724 Text proposal on Link Adaptation for E-UTRA Uplink (NTT DoCoMo , Ericsson, Fujitsu, NEC, Panasonic, Sharp, Toshiba Corporation, Samsung)

17/02/2006 16:30 Presented by Dr. Kenichi Higuchi

Discussion (Question / Comment):

Decision: This text proposal was agreed.

R1-060355 Link adaptation for uplink and text proposal (Samsung)

15/02/2006 18:55 Presented by Dr. Juho Lee.

Discussion (Question / Comment):

Decision: This text proposal was merged into NTT DoCoMo proposal.

R1-060484 TP on Fixed Modulation and RV Sequence with Synchronous HARQ in Uplink (Qualcomm Europe)

15/02/2006 19:05 Presented by Dr. Durga Malladi.

Discussion (Question / Comment):

Decision: it was decided to produce a text proposal in R1-060725.

R1-060725 TP on uplink link adaptation (Qualcomm Europe)

17/02/2006 16:31 Presented by Mr. Serge Willenegger

Discussion (Question / Comment):

Decision: This text proposal was agreed.

R1-060656 Channel Sounding Overhead Analysis (Nortel)

15/02/2006 19:20 Presented by Ms.

Discussion (Question / Comment):

Rainer Bachl from Lucent asked what the actual benefit of this scheme is. The answer was that CQI is sent on a few sub-bands and it does reduce OH.

Some company raised comments and concerns on this scheme and its benefit.

Nortel clarified that the simulation results will be provided in the next meeting.

Decision: This document was noted.

Not Treated

R1-060641 CQI signalling for LTE (IPWireless)

13.2.3.4 Power Control

Not Treated

R1-060297 Uplink power control (Nokia)

R1-060325 CQI-Based Transmission Power Control for L1/L2 Control Channel in E-UTRA Uplink (NTT DoCoMo , Fujitsu, NEC, Sharp, Toshiba Corporation)

R1-060385 Cubic Metric in 3GPP-LTE (Motorola)

R1-060393 UE Power Management for E-UTRA + TP (Motorola)

R1-060486 E-UTRA Uplink Intra-cell Power Control (Qualcomm Europe)

R1-060638 Power Control Methods for Unpaired LTE Uplink (IPWireless)

13.2.3.5 HARQ

R1-060356 Uplink HARQ consideration (Samsung)

16/02/2006 16:35 Presented by Mr. Yongjun Kwak.

Discussion (Question / Comment):

Decision: This document was noted.

R1-060395 HARQ considerations fro E-UTRA

(Motorola)

16/02/2006 16:40 Presented by Mr. Robert Love.

Discussion (Question / Comment):

Stefan Parkvall commented that the text proposal is premature in this stage.

Durga Malladi from Qualcomm also raised a comment and concern on the description on asynchronous HARQ. Farooq Khan from Samsung commented that he supported to the text proposal generally but calling a particular scheme as "the best" is premature at this stage.

Thanh Bui from NEC commented that asynchronous, synchronous, adaptive, non-adaptive, it's not clear so that description and definition should be in line with DL paper from Ericsson in Helsinki meeting.

Decision: This text proposal was revised in R1-060737.

R1-060737 HARQ E-UTRA TP

(Motorola, Ericsson, Qualcomm, Huawei)

17/02/2006 16:32 Presented by Mr. Robert Love.

Discussion (Question / Comment):

Joon-Kui Ahn from LGE raised a concern on the sentence "Hence, the associated control information needs to be transmitted with the retransmission."

Juho Lee from Samsung pointed that there are much overlap with R1-060725. Matthew Baker suggested that now we approve both and in next meeting do clean-up.

Decision: This text proposal was agreed with the change of "with" to "for" in "Hence, the associated control information needs to be transmitted with the retransmission."

R1-060546 Considerations on Synchronous HARQ in Uplink

(Huawei)

16/02/2006 17:05 Presented by Mr. Gaoke Du

Discussion (Question / Comment):

Thanh Bui from NEC pointed out that the some new definition is need.

Matthew Baker pointed out that the description "Chunk" is not consistent to TR, it's resource block.

Decision: The text proposal is merged with some rewording in R1-060737.

R1-060404 Uplink H-ARQ timing and number of processes

(Motorola)

16/02/2006 09:20 Presented by Mr. Jean-Aicard Fabien

Discussion (Question / Comment):

Decision: This document was noted.

R1-060405 TP"Uplink H-ARQ timing and number of processes"

(Motorola)

16/02/2006 09:20 Presented by Mr. Jean-Aicard Fabien

Discussion (Question / Comment):

There was some discussion on inclusion of the last sentence into TR. Some delegates raised a concern on the flexibility of the number of HARQ process and also different process depending on different service. Mr. RAN1 Chairman commented that currently we don't discuss about the number of process, static or semi-static and we have just HARQ in TR. These topics will be the list for the joint meeting with RAN2.

Decision: This document was noted.

Conclusion:

N-channel Stop-and-wait HARQ is the working assumption in Uplink and Downlink

This conclusion was captured in the text proposal (R1-060738)

Withdraw

R1-060738 Text Proposal on HARQ

(Ericsson)

This document was withdrawn because it's already captured in R1-060725.

R1-060509 Constellation Re-arrangement for Repetition Transmission (KDDI)

13.2.3.6 Inter-cell Interference mitigation

R1-060667 Interference Coordination for E-UTRA Uplink

(Alcatel)

14/02/2006 14:35 Presented by Dr. Christian G. Gerlach.

Discussion (Question / Comment):

Farooq from Samsung raised a concern on the simulation result that UL throughput is very large compared with DL one.

Mr. RAN1 Chairman asked how to realise such topology.

As for text proposal, Erik Dahlman showed the objection for agreement.

Decision: The document was noted.

R1-060670 Interference Mitigation by Partial Frequency Reuse
(Siemens) (Resubmission of R1-060135)

14/02/2006 15:00 Presented by Dr. Juergen Michel.

Discussion (Question / Comment):

Robert Love from Motorola asked if simulation assumption penetration loss is 20dB. The answer was yes.

Erik Dahlman from Ericsson commented that he don't understand the benefit of this scheme

Decision: The document was noted.

R1-060586 DL/UL inter-cell interference co-ordination/avoidance - impact on the
specifications (Ericsson, NTT DoCoMo)

14/02/2006 15:15 Presented by Dr. Stefan Parkvall

Discussion (Question / Comment):

Decision: The document was noted.

R1-060298 Uplink Inter-cell interference mitigation and text proposal (Nokia)

14/02/2006 16:10 Presented by Mr. Makku Tarkiainen.

Discussion (Question / Comment):

Stefan Parkvall from Ericsson commented that text proposal is fine.

Kenichi Higuchi from NTT DoCoMo commented that this proposal is very interesting but why the proposed scheme improves the cell edge throughput in addition to sector throughput.

Joon Kui Ahn from LGE asked how to handle the frequency scheduling. The answered was that it's based on CQI reporting, but LGE don't understand so Off-line.

Decision: The text proposal was agreed.

R1-060401 Interference Mitigation via Power Control, FDM Resource Allocation and UE
Alignment for E-UTRA +TPs (Motorola)

14/02/2006 16:25 Presented by Mr.

Discussion (Question / Comment):

Christian G. Gerlach from Alcatel asked if on table of 1 and 3 how many users are assumed. The answer was that = 5 user per sector for table1 and 10 user per sector for table 3

As for text proposal, Nicholas Anderson from IPWireless raised a concern on the sentence " No coordination is needed between the Node-Bs" that if Node B coordination , the higher gain can be obtained.

Decision: The text proposal was agreed with deletion of the line which IPWireless raised a concern on.

R1-060418 TP on uplink inter-cell interference cancellation (RITT, Huawei, CATT)

14/02/2006 16:40 Presented by Mr. Gaoke Du from Huawei.

Discussion (Question / Comment):

Decision: This text proposal was revised in R1-060704 as same as DL paper.

R1-060704 TP on uplink inter-cell interference cancellation (RITT, Huawei, CATT)

17/02/2006 16:50 Presented by Mr. Wenyu Li

Discussion (Question / Comment):

Decision: This text proposal was revised as same as for DL paper to R1-060752 for email approval until 24th February.

R1-060752 TP on uplink inter-cell interference cancellation (RITT, Huawei, CATT)

Decision: This text proposal was agreed on e-mail reflector.

R1-060419 Combining Inter-cell-interference co-ordination/avoidance with cancellation in
uplink and TP (RITT)

Decision: This document was noted without presentation.

R1-060485 Uplink Inter-cell Interference Mitigation using Load Indication
(Qualcomm Europe)

14/02/2006 16:45 Presented by Dr. Durga Malladi.

Discussion (Question / Comment): This document was moved from 13.2.3.4

Nortel raise a concern on the load indicator that she doesn't understand how the load indicator achieve gain. There was long discussion on the mechanism using load indicator.

Sarah from Nortel raised a concern that TR already has the section for UL power control so that there will become the different scheme in the different section. Mr. RAN1 chairman commented that Motorola, Nokia and Qualcomm proposal will put into power control section, but it's later.

Decision: This text proposal was revised in R1-060705.

R1-060705 TP on Uplink Inter-cell Interference Mitigation using Load Indication
(Qualcomm Europe, IPWireless)

17/02/2006 16:45 Presented by Mr. Serge Willenegger

Discussion (Question / Comment):

Decision: This text proposal was agreed.

R1-060487 TP on UL Interference Suppression Techniques (Qualcomm Europe)

14/02/2006 17:10 Presented by Mr. Juan Montojo

Discussion (Question / Comment):

Erik Dahlman from Ericsson commented that scrambling has no impact to the frequency domain scheduling, but FH should be more clarified.

Christian G. Gerlach. from Alcatel raised a concern that the last sentence is a little bit strong.

Decision: This text proposal was revised in R1-060706

R1-060706 TP on UL Interference Suppression Techniques (Qualcomm Europe)

17/02/2006 16:53 Presented by Mr. Juan Montojo

Discussion (Question / Comment):

Decision: This text proposal was agreed.

R1-060488 TP on UL Interference Mitigation Techniques (Qualcomm Europe)

14/02/2006 17:20 Presented by Dr. Durga Malladi.

Discussion (Question / Comment):

Decision: This document was noted

Outcome drafting for inter-cell interference mitigation.

R1-060711 Text proposal for TR25.814 section 9.1.2.7 (Ericsson)

15/02/2006 14:15 Presented by Dr. Stefan Parkvall

Discussion (Question / Comment):

Decision: This text proposal was agreed with rejection of the first sentence.

R1-060712 Text proposal for TR25.814 section 7.1.2.6 (Ericsson)

15/02/2006 14:20 Presented by Dr. Erik Dahlman

Discussion (Question / Comment):

Decision: This text proposal was agreed with rejection of the first sentence.

R1-060713 Draft LS answer to RAN3 R3-060085 (=R1-060004) on RRM for LTE
(Ericsson)

R1-060719 LS answer to RAN3 R3-060085 (=R1-060004) on RRM for LTE
(Ericsson) (Revision of R1-060713)

15/02/2006 14:20 Presented by Dr. Erik Dahlman

Discussion (Question / Comment):

Hai Tang from CATT pointed out 0.675ms should be added as sub-frame duration.

Decision: This LS was approved as the final version with some correction.

13.2.4 Physical Layer Measurements

13.2.5 Downlink related UE Capability

Not Treated

- | | | |
|------------------|---|--------------------------|
| R1-060326 | UE Capability in E-UTRA Uplink | (NTT DoCoMo , |
| | Fujitsu, Mitsubishi Electric, Panasonic, Sharp, Toshiba Corporation) | |
| R1-060391 | Uplink UE Capability | (Motorola) |
| R1-060440 | Downlink UE bandwidth capability | (ETRI) |
| R1-060489 | UL UE capability: RF and Baseband Limitations | (Qualcomm Europe) |

R1-060587 UE maximum-bandwidth capability and related issues
(Ericsson, NTT DoCoMo)
R1-060639 Duplex Capability
(IPWireless)

14. RAN1/RAN3 Joint session on RRM for LTE

RAN1/RAN3 Joint session on inter-cell interference mitigation & inter-cell RRM was held on 16th February, Wednesday from 6pm to 7pm. Mr. Dirk Gerstenberger (RAN1 Chairman) and Mr. Alexander Vesely (RAN3 Chairman) were co-chairing this session.

The discussion on this session was based on the Reply LS from RAN1 to RAN3 regarding RRM for LTE (R1-060719, R3-060358).

At first, as checking the status, RAN3 Chairman gave an overview of the discussions in RAN3 with regards to the possible architecture as shown in the bottom.

1. Architecture without RRM server and RRC in eNodeB
2. Architecture with RRM server and RRC in eNodeB
3. Architecture without RRM server and RRC in aGW

He explained that the signalling for interference mitigation changes depending on the architecture, i.e. the information between E-Node Bs and information between E-Node B and centre RRM server. RAN1 Chairman confirmed that RRM server is for managing the inter-cell RRM and intra-cell RRM is managed by E-Node B.

As discussion points, the four points were shown by RAN3 Chairman as followed and each point was discussed.

1) inter-cell RRM related information exchange in the range of 1ms is not feasible

RAN1 Chairman explained that RAN1 currently has a lot of mitigation schemes.

Thomas Ulrich (Siemens) explained that this statement made by RAN3 concerns inter-cell information exchange and he asked about the possibility of two different schemes for intra and inter-cell.

The RAN1 chairman answered that the LS answer regarding the schemes was made for intra Node-B between sectors. But there were also opinions that the LS answer is valid for inter Node-B.

Christian G Gerlach from Alcatel commented that inter-node B case is critical to time.

Erik Dahlman commented that at first, inter-case should be discussed, and he asked how about 50ms.

It was commented that RRM information exchange down to the range of 50-100ms would be feasible from RAN3 point of view.

It was clarified that RAN3 is interested in more detailed information in order but the RAN1 chairman explained that studying the issue in further details will be difficult because other issues with high priority, e.g. random access need to be solved.

2) Understanding the potential network signalling impact wrt interference cancellation

RAN1 Chairman commented that RAN1 consider IDMA technique as the interference cancellation and it's the interleaving technique coordinating between cells. The time range is not dynamic, but very slow. It was commented RAN1 considers the cancellation technique has much impact on signalling on interface, it need the synchronized transmission between cells. For, example, IDMA scheme needs synchronization on cell and transmission.

3) Restriction Configuration: are schemes evaluated taking into account only neighbour-cell effects or do the schemes (have to) regard a broader scope?

RAN3 Chairman said that this question came up when discussing if a direct link to the RRM server is required. Alcatel answered that the Alcatel proposal is that there a different schemes, schemes for neighbour cells and schemes for a broader scope. However, it must be considered what simulation/radio wise neighbour cell exactly means.

Durga Malladi from Qualcomm pointed out that RAN1 has not evaluated the impact mobility on interference mitigation in simulation so far so that the evaluation had better capture the signalling delay from RAN3 perspective.

Erik Dahlman from Ericsson commented that considering only neighbouring cell makes the system level simulation very simple so that only neighbour cell should be considered. Juho Lee from Samsung supported to this proposal and commented that at first stage we should consider only neighbour-cell effect.

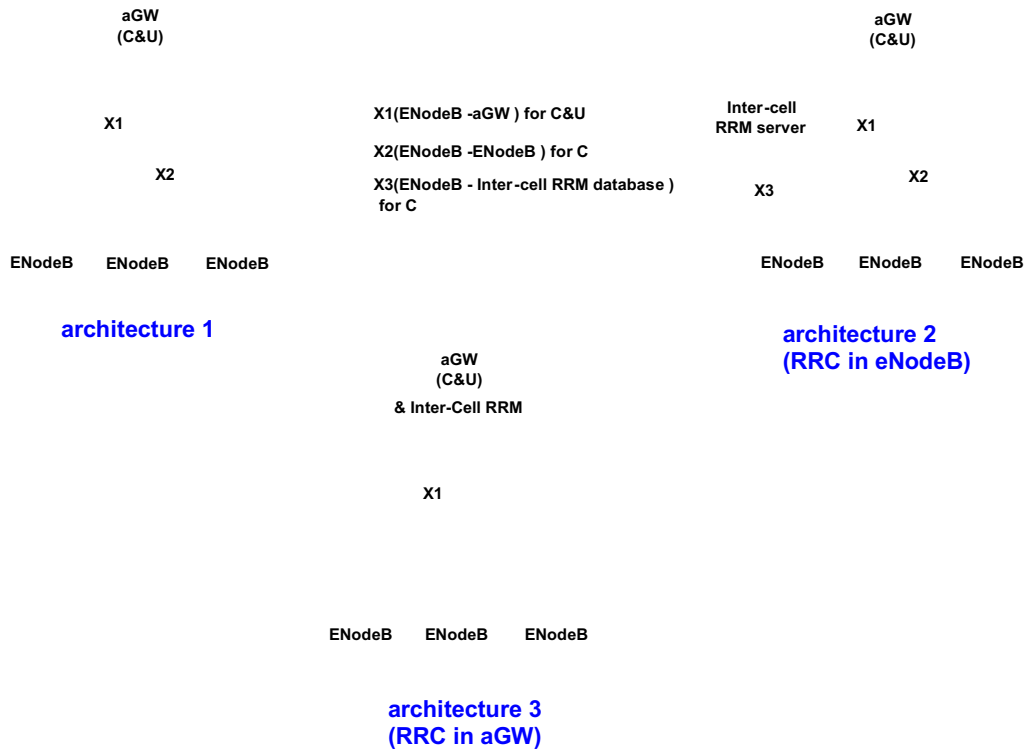
4) Processing and transportation aspects of information exchange: which kind of information to be exchanged?

With this question RAN3 would like to understand the semantics of the information, what kind of information needs to be exchanged. So far the focus what more on the size of the information while the type of information was not considered yet.

Furthermore, RAN1 chairman commented that the focus was more on the different possibilities of interference cancellation and how they can be handled.

Siemens commented that we already addressed that in Reply LS.

Karri Ranta-aho from Nokia commented that the information exchanged should not be UE specific but cell specific information. To the comment, Erik Dahlman from Ericsson commented that the information should be original from UE, that is, from UE measurements.



15. Other business

The email discussion on some topics until next meeting was decided. (Moderator)

1. Uplink/ Downlink
 - a. Estimate of Physical OH from L1 signalling (Dr. Stefan Parkvall from Ericsson)
2. Uplink
 - a. Uplink reference symbol density (Dr. Joonyoung Cho from Samsung)
 - b. RACH scheme (Dr. Amitava Ghosh from Motorola)
3. Downlink
 - a. Cell search scheme (& BCH, PCH) (Dr. Kenichi Higuchi from NTT DoCoMo)
 - b. MBMS (Mr. Juan Montojo from Qualcomm Europe)

16. Closing of the meeting

17/02/2006 17: 05. RAN1 Chairman, Mr. Dirk Gerstenberger expressed his appreciation to the delegates and the host, North American Friends of 3GPP.

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3GPP TSG RAN WG1 Meeting #44bis
Athens, Greece, 27 – 31 March, 2006

R1-061099

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3GPP TSG RAN WG1 Meeting #44bis
Athens, Greece, 27 – 31 March, 2006

R1-061099

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**3GPP TSG RAN WG1 Meeting #44bis
Athens, Greece, 27 – 31 March, 2006**

R1-061099

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3GPP TSG RAN WG1 Meeting #44bis
Athens, Greece, 27 – 31 March, 2006

R1-061099

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3GPP TSG RAN WG1 Meeting #44bis
Athens, Greece, 27 – 31 March, 2006

R1-061099

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Annex B: TSG RAN WG1 meetings in 2006

TITLE	TYPE	DATES	LOCATION	CTRY
3GPPRAN1 LTE Ad Hoc	Ad	23 - 25 Jan 2006	Helsinki	FIN
3GPPRAN1#44	WG	13 - 17 Feb 2006	Denver	USA
3GPPRAN1#44bis	WG	27 - 31 Mar 2006	Athens	GR
3GPPRAN1#45	WG	08 - 12 May 2006	Shanghai	CN
3GPPRAN1 LTE Ad Hoc	Ad	27 - 30 June 2006	Cannes	FR
3GPPRAN1#46	WG	28 Aug -01 Sept 2006	Tallin	Estonia
3GPPRAN1#46bis	WG	09 -13 Oct 2006	TBD	Asia
3GPPRAN1#47	WG	06 - 10 Nov 2006	TBD	EU

MEETING TYPES

AH = Ad Hoc	CM = Chairmen's meeting
JM = Joint	OR = Ordinary
PM = Preparatory Meeting	RG = Rapporteurs Group
RM = Resolution Meeting	SG = Steering Group
ST = Startup Meeting	TG = Task Group
WG = Working Group	XO = Extraordinary

Annex C: List of CRs agreed at RAN1#44

Spec	CR	R	Cat	Rel	R1 Tdoc	Title	Work Item
25.804	0001	3	B	Rel-6	R1-060679	Simulation results of LCR TDD enhanced uplink	RInImp-FSUpEnhTDD
25.213	0084	1	F	Rel-6	R1-060682	Correction to number of configured DPDCHs when E-DPDCH is configured	EDCH-Phys
25.214	0416	-	F	Rel-6	R1-060554	Correction to number of configured DPDCHs in relation to E-DPDCH power scaling	EDCH-Phys
25.221	0135	-	B	Rel-7	R1-060619	Introduction of the Physical Layer Common Control Channel (PLCCH)	RANimp-RABSE-CodOptLCRTDD
25.222	0126	-	B	Rel-7	R1-060620	Introduction of the Physical Layer Common Control Channel (PLCCH)	RANimp-RABSE-CodOptLCRTDD
25.224	0149	-	B	Rel-7	R1-060621	Introduction of the Physical Layer Common Control Channel (PLCCH)	RANimp-RABSE-CodOptLCRTDD
25.201	0023	-	B	Rel-7	R1-060622	Introduction of 7.68Mcps TDD option	VHCRTDD-Phys
25.221	0136	-	B	Rel-7	R1-060623	Introduction of 7.68Mcps TDD option	VHCRTDD-Phys
25.222	0127	-	B	Rel-7	R1-060624	Introduction of 7.68Mcps TDD option	VHCRTDD-Phys
25.223	0038	-	B	Rel-7	R1-060625	Introduction of 7.68Mcps TDD option	VHCRTDD-Phys
25.224	0150	-	B	Rel-7	R1-060626	Introduction of 7.68Mcps TDD option	VHCRTDD-Phys
25.225	0079	-	B	Rel-7	R1-060627	Introduction of 7.68Mcps TDD option	VHCRTDD-Phys

Annex D: List of Outgoing LSs

NUMBER	TITLE	WI	To	Cc
R1-060491	LS on RAN1 discussion about the introduction of 1.6MHz	FS on Evolved UTRA and UTRAN	TSG RAN	-
R1-060675	Reply to LS on Reference RAB Configurations for MBMS (R2-053142)	MBMS-RAN	RAN2	-
R1-060676	Reply to LS on Value range for Qoffmbms (R2-053171)		RAN2	-
R1-060687	LS on input to TS25.202	7.68Mcps TDD option	RAN2, RAN3, RAN4	-
R1-060697	LS on support for different E-DCH and HS-DSCH serving cells	Enhanced Uplink	RAN2	RAN3, RAN4
R1-060719	LS answer to RAN3 R3-060085 (=R1-060004) on RRM for LTE	FS on Evolved UTRA and UTRAN	RAN3	RAN2, RAN4
R1-060741	Response LS to ITU-R Ad Hoc	-	ITU-R Ad Hoc	-
R1-060743	Reply to LS on Synchronisation of Reconfiguration with activation time "now"	Delay optimization for procedures applicable to CS and PS connections	RAN2	RAN3, RAN4
R1-060753	LS on RAB and the error-delay-profile for the performance characterization of VoIMS over HSDPA/EUL		RAN2	SA4
R1-060729	Response LS on additional WB-AMR RAB combination, VT bearer configuration, and Uplink streaming 128 kbps combinations		RAN2	-

Annex E: List of Tdocs at RAN1 #44

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060270	Draft Agenda	RAN1 Chairman	2		13/02/2006	Approved
R1-060271	Report from TSG RAN#30 and RAN1 LTE Ad Hoc	RAN1 Chairman	4		13/02/2006	Noted
R1-060272	Draft Report from RAN1#43 Meeting	RAN1 Secretary	3		13/02/2006	Approved in R1-060755
R1-060273	Draft Report from RAN1 LTE Ad Hoc Meeting	RAN1 Secretary	3		13/02/2006	Approved in R1-060756
R1-060274	LS on Reference RAB Configurations for MBMS (To: RAN1)	RAN WG2, Qualcomm	5	= R2-053142	13/02/2006	Noted
R1-060275	Value range for Qoffmbms (To: RAN1, RAN4)	RAN WG2, LG Electronics	5	= R2-053171	13/02/2006	Noted
R1-060276	Improved Support of IMS Realtime Services using HSDPA/HSUPA (To: RAN2, RAN1, Cc: RAN3)	RAN WG4, Nokia	5	= R4-051413	13/02/2006	Noted
R1-060277	LS on Puncturing limit for Conversational / speech 12.2 kbps + Interactive 0 kbps (To: RAN1)	RAN WG5, Ericsson	5	= R5-052171	13/02/2006	Noted
R1-060278	LS on Higher data rates in MBMS user service (To: SA1, Cc: RAN1)	SA WG4, Ericsson, Nokia	5	= S4-050798	13/02/2006	Noted
R1-060279	Liaison Statement from RAN2 on RAB and the error-delay-profile for the performance characterization of VoIMS over HSDPA/EUL (To: RAN2, Cc: RAN1, RAN4, RAN5, SA1)	SA WG4, BenQ mobile	5	= S4-050840	13/02/2006	Noted
~~R1-060280~~	~~HSDPA MIMO Evaluation~~	~~Nokia~~	~~9~~			Withdrawn
R1-060281	MIMO scheme for consideration in UTRA MIMO evaluations	Nokia	9		14/02/2006	Noted
R1-060282	On open loop MIMO with 4 Tx antennas	Nokia	13.1.2			Not treated
R1-060283	Single vs. multiple codewords for DL MIMO	Nokia	13.1.2			Noted
R1-060284	MIMO Link adaptation for DL and UL E-UTRA	Nokia	13.1.2			Not treated
~~R1-060285~~	~~Closed loop DL MIMO~~	~~Nokia~~	~~13.1.2~~			Withdrawn
R1-060286	Resource block allocation - mapping rules	Nokia	13.1.3			Not treated
~~R1-060287~~	~~Downlink Link Adaptation - Power Allocation~~	~~Nokia~~	~~13.1.3~~			Withdrawn
R1-060288	OFDMA Downlink L1/L2 control signalling	Nokia	13.1.3			Not treated

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060289	EUTRA Cell Search for initial synchronization and neighbor cell identification	Nokia	13.1.3			Not treated
R1-060290	EUTRA UE bandwidth capability	Nokia	13.1.3		16/02/2006	Noted
R1-060291	OFDMA Downlink inter-cell interference mitigation	Nokia	13.1.3		14/02/2006	Noted
R1-060292	Multiplexing between D-FDMA and L-FDMA	Nokia	13.2.2		15/02/2006	Noted
R1-060293	UL Modulation scheme	Nokia	13.2.2.1		16/02/2006	Revised in R1-060730
R1-060294	UL Reference Signal Structure	Nokia	13.2.2.2			Not treated
R1-060295	Channel dependent Scheduling in E-UTRA uplink and Text Proposal	Nokia	13.2.2.3		15/02/2006	Noted
R1-060296	Random access message – text proposal	Nokia	13.2.3.1		16/02/2006	Noted
R1-060297	Uplink power control	Nokia	13.2.3.4			Not treated
R1-060298	Uplink Inter-cell interference mitigation and text proposal	Nokia	13.2.3.6		14/02/2006	Agreed
R1-060299	EUTRA Downlink MIMO configurations and comparisons	Freescall Semiconductor	13.1.2			Noted
R1-060300	Orthogonal Pilot Channel Structure for Sectorized Beams in E-UTRA Downlink	NTT DoCoMo, Fujitsu, Mitsubishi Electric, NEC, Sharp	13.1.3			Not treated
R1-060301	L1/L2 Control Channel Structure for E-UTRA Downlink	NTT DoCoMo, Ericsson, Fujitsu, Mitsubishi Electric, NEC, Panasonic, Sharp, Toshiba Corporation	13.1.3			Not treated
R1-060302	Broadcast Channel Structure for E-UTRA Downlink	NTT DoCoMo, Fujitsu, Mitsubishi Electric, NEC, Panasonic, Sharp, Toshiba Corporation	13.1.3			Not treated

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060303	Paging Channel Structure for E-UTRA Downlink	NTT DoCoMo, Fujitsu, Mitsubishi Electric, NEC, Toshiba Corporation	13.1.3			Not treated
R1-060304	MBMS Channel Structure for E-UTRA Downlink	NTT DoCoMo, Panasonic, Sharp	13.1.3			Not treated
R1-060305	Distributed FDMA Transmission for Shared Data Channel in E-UTRA Downlink	NTT DoCoMo, Ericsson, Fujitsu, Mitsubishi Electric, NEC, Nokia, Panasonic, Sharp, Toshiba Corporation	13.1.3			Not treated
R1-060306	Link Adaptation Scheme for Single-antenna Transmission in E-UTRA Downlink	NTT DoCoMo, Ericsson, Fujitsu, Intel, Mitsubishi Electric, NEC, Panasonic, Sharp, Toshiba Corporation	13.1.3			Not treated
R1-060307	Link Adaptation Scheme for MIMO Transmission in E-UTRA Downlink	NTT DoCoMo, Ericsson, Fujitsu, Mitsubishi Electric, NEC, Panasonic, Sharp, Toshiba Corporation	13.1.3			Not treated

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060308	Text Proposal on Cell Search in E-UTRA(1): Radio Frame Structure	NTT DoCoMo, Ericsson, Fujitsu, Mitsubishi Electric, Motorola, NEC, Panasonic, Sharp, Siemens, Toshiba Corporation	13.1.3			Not treated
R1-060309	Text Proposal on Cell Search in E-UTRA(2): Sub-frame Structure	NTT DoCoMo, Ericsson, Fujitsu, Mitsubishi Electric, NEC, Nokia, Panasonic, Sharp, Siemens, Toshiba Corporation	13.1.3			Not treated
R1-060310	Text Proposal on Cell Search in Evolved UTRA(3): Frequency Domain Structure and Basic Cell Search Procedure	NTT DoCoMo, Ericsson, Fujitsu, Mitsubishi Electric, Motorola, NEC, Panasonic, Sharp, Toshiba Corporation	13.1.3			Not treated
R1-060311	SCH Structure and Cell Search Method for E-UTRA Downlink	NTT DoCoMo, NEC, Sharp	13.1.3			Not treated
R1-060312	Cell Search Method for MIMO Node B in E- UTRA Downlink	NTT DoCoMo, Fujitsu, Mitsubishi Electric, NEC, Sharp	13.1.3			Not treated

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060313	Cell Search Method for Connected and Idle Mode in E-UTRA Downlink	NTT DoCoMo, Fujitsu, NEC, Panasonic, Toshiba Corporation	13.1.3			Not treated
R1-060314	Performance Comparison between Turbo Code and LDPC Code for Shared Data Channel in E-UTRA Downlink	NTT DoCoMo, NEC, Sharp, Toshiba Corporation	13.1.3			Not treated
R1-060315	Mappings between Transport Channels and Physical Channels for E-UTRA Downlink	NTT DoCoMo, Fujitsu, Sharp, Toshiba Corporation	13.1.3			Not treated
R1-060316	UE Capability in E-UTRA Downlink	NTT DoCoMo, Fujitsu, Sharp, Toshiba Corporation	13.1.3			Not treated
R1-060317	Comparisons on 16QAM Modulation Schemes for E-UTRA Uplink	NTT DoCoMo, Ericsson, Fujitsu, Mitsubishi Electric, NEC, Panasonic, Sharp, Toshiba Corporation	13.2.2.1		16/02/2006	Noted
R1-060318	Optimum Roll-off Factor for DFT-Spread OFDM Based SC-FDMA in Uplink	NTT DoCoMo	13.2.2.1		16/02/2006	Noted
R1-060319	Orthogonal Pilot Channel Structure for E-UTRA Uplink	NTT DoCoMo, Fujitsu, Mitsubishi Electric, NEC, Panasonic, Sharp, Toshiba Corporation	13.2.2.2			Not treated
R1-060320	L1/L2 Control Channel Structure for E-UTRA Uplink	NTT DoCoMo, NEC, Sharp, Toshiba Corporation	13.2.2.3			Not treated

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060321	Mappings between Transport Channels and Physical Channels for E-UTRA Uplink	NTT DoCoMo, Fujitsu, Panasonic, Sharp, Toshiba Corporation	13.2.2.4		15/02/2006	Noted
R1-060322	Random Access Channel Structure for E-UTRA Uplink	NTT DoCoMo, Fujitsu, Mitsubishi Electric, NEC, Panasonic, Sharp, Toshiba Corporation	13.2.3.1		16/02/2006	Noted
R1-060323	Channel-dependent Scheduling for E-UTRA Uplink	NTT DoCoMo, Fujitsu, NEC, Panasonic, Sharp	13.2.3.2		15/02/2006	Noted
R1-060324	Link Adaptation for E-UTRA Uplink	NTT DoCoMo, Ericsson, Fujitsu, NEC, Panasonic, Sharp, Toshiba Corporation	13.2.3.3		15/02/2006	Revised in R1-060724 merged with text from R1-050355
R1-060325	CQI-Based Transmission Power Control for L1/L2 Control Channel in E-UTRA Uplink	NTT DoCoMo, Fujitsu, NEC, Sharp, Toshiba Corporation	13.2.3.4			Not treated
R1-060326	UE Capability in E-UTRA Uplink	NTT DoCoMo, Fujitsu, Mitsubishi Electric, Panasonic, Sharp, Toshiba Corporation	13.2.5			Not treated
R1-060327	Non-hierarchical cell search for E-UTRA	Huawei	13.1.3			Not treated
R1-060328	RACH design for E-UTRA	Huawei	13.2.3.1			Not treated

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060329	Cubic metric performances of optimum spectrum-shaping functions for PAPR reduction	Huawei	13.2.3.4		16/02/2006	Text proposal was agreed.
R1-060330	25214 CR0414 (Rel-5, F) "Clarification of Power Control for HS-PDSCH"	Agere Systems	6.3		13/02/2006	Rejected
R1-060331	25214 CR0415 (Rel-6, A) "Clarification of Power Control for HS-PDSCH"	Agere Systems	6.3		13/02/2006	Rejected
R1-060332	Summary of LTE MIMO teleconference discussion	MIMO AH Chairman	13.1.1		14/02/2006	Noted
R1-060333	Text proposal incorporating LTE MIMO teleconference discussion	MIMO AH Chairman	13.1.1		14/02/2006	Revised in R1-060710
R1-060334	LTE channel coding	Samsung	13.1.3			Not treated
R1-060335	Downlink MIMO for Evolved UTRA	Samsung	13.1.2			Noted
R1-060336	Text Proposal on MIMO for Evolved UTRA	Samsung	13.1.2			Noted
R1-060337	Text Proposal on Open-Loop Transmit Diversity for Evolved UTRA	Samsung	13.1.2			Revised in R1-060715
R1-060338	Text Proposal on MIMO Beamforming for Evolved UTRA	Samsung	13.1.2			Noted
R1-060339	MIMO for E-MBMS	Samsung	13.1.2			Noted
R1-060340	Text Proposal on MIMO for E-MBMS	Samsung	13.1.2	R1-060717		Revised in R1-060717
R1-060341	Cell search and related physical channel mapping	Samsung	13.1.3			Not treated
R1-060342	Text proposal on cell search and related physical channel mapping	Samsung	13.1.3			Not treated
R1-060343	Text proposal on downlink ACK channel	Samsung	13.1.3			Not treated
R1-060344	Rules for mapping VRBs to PRBs	Samsung	13.1.3			Not treated
R1-060345	Text proposal on rules for mapping VRBs to PRBs	Samsung	13.1.3			Not treated
R1-060346	Link Adaptation Considerations for Evolved UTRA Downlink and Text Proposal	Samsung	13.1.3			Not treated
R1-060347	Multiplexing of Broadcast and Unicast Traffic	Samsung	13.1.3			Not treated
R1-060348	L1/L2 Control Signalling Multiplexing in Evolved UTRA Uplink	Samsung	13.2.2.3			Not treated
R1-060349	LFDMA and DFDMA multiplexing in evolved UTRA uplink and text proposal	Samsung	13.2.2.4		15/02/2006	Noted
R1-060350	Text proposal on resource unit	Samsung	13.2.2.4	R1-060718	15/02/2006	Revised in R1-060718

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060351	Physical random access procedure	Samsung	13.2.3.1			Not treated
R1-060352	Text proposal on physical random access procedure	Samsung	13.2.3.1			Not treated
R1-060353	Uplink scheduling	Samsung	13.2.3.2		15/02/2006	Noted
R1-060354	Text proposal on uplink scheduling	Samsung	13.2.3.2		15/02/2006	Agreed
R1-060355	Link adaptation for uplink and text proposal	Samsung	13.2.3.3	R1-060724	15/02/2006	Merged into R1-060724
R1-060356	Uplink HARQ consideration	Samsung	13.2.3.5		16/02/2006	Noted
R1-060357	Beta boosting for SIR target lowering concept	Siemens	10		13/02/2006	Agreed
R1-060358	Considerations on E-UTRA Cell Search and Initial Access	Siemens	13.1.3			Not treated
R1-060359	Interference cancellation for LTE & TP for TR25.814	France Telecom, Orange, Cingular Wireless, IPWireless, T-Mobile, Vodafone	13.1.3	R1-060702	14/02/2006	Noted. Text proposal was revised in R1-060702
R1-060360	Duo-Binary Turbo Codes for evolved UTRA	France Telecom, Orange	13.2.2.4			Not treated
R1-060361	Number of codewords in DL MIMO and text proposal	Freescall Semiconductor Inc.	13.1.2			Noted
R1-060362	MIMO techniques for Downlink E-UTRA: Detailed description and Simulation results	NEC Group	13.1.2			Noted
R1-060363	TR25.814 v.1.0.3 Physical Layer Aspects for Evolved UTRA	Editor (NTT DoCoMo)	13		15/02/2006	Endorsed as v1.1.0 in R1-060714
R1-060364	Scheduling and Multiplexing of CQI and ACK/NACK Feedback for Single Carrier FDMA in Evolved UTRA Uplink	InterDigital	13.2.2.3			Not treated
R1-060365	Extension of Uplink MIMO SC-FDMA with Preliminary Simulation results	InterDigital	13.2.2.5	R1-060671		Revised in R1-060671
R1-060366	~~Rate Matching Using Mixed Modulation Method~~	~~InterDigital~~	~~13.2.2.4~~			Withdrawn
R1-060367	Considerations on SCH for Cell Search in E-UTRA	InterDigital	13.1.3			Not treated

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060368	Performance of Inter-Cell Interference Mitigation with Semi-Static Frequency Planning for EUTRA Downlink	Texas Instruments	13.1.3		14/02/2006	Noted
R1-060369	Signaling Requirements to Support Semi-Static Frequency Planning for Inter-Cell Interference Mitigation in EUTRA Downlink	Texas Instruments	13.1.3		14/02/2006	Noted
R1-060370	Text Proposal for Inter-cell Interference Mitigation for EUTRA	Texas Instruments	13.1.3		14/02/2006	Noted
R1-060371	EUTRA Downlink Unicast Pilot Frequency Spacing Considerations	Texas Instruments	13.1.3			Not treated
R1-060372	Multiplexing of Unicast Pilot and Control Channels in E-MBMS for EUTRA Downlink	Texas Instruments	13.1.3			Not treated
R1-060373	Comparison of Proposed Uplink Pilot Structures for SC-OFDMA	Texas Instruments	13.2.2.2			Not treated
R1-060374	Text Proposal for Uplink Reference Signal Structure	Texas Instruments	13.2.2.2			Not treated
R1-060375	Text Proposal for Downlink CQI Reporting Timing for EUTRA	Texas Instruments	13.2.2.3			Not treated
R1-060376	RACH preamble design for E-UTRA	Texas Instruments	13.2.3.1			Not treated
R1-060377	Uplink Throughput Comparison of Localized and Distributed SC-FDMA	Texas Instruments	13.2.3.2		15/02/2006	Noted
R1-060378	E-UTRA Downlink Control Channel Structure and TP	Motorola	13.1.3			Not treated
R1-060379	Cell Search and Initial Acquisition for EUTRA	Motorola	13.1.3			Not treated
R1-060380	Localized Transmission for E-MBMS	Motorola	13.1.3			Not treated
R1-060381	Frequency Domain Scheduling for E-UTRA	Motorola	13.1.3			Not treated
R1-060382	Downlink UE Capability	Motorola	13.1.3		16/02/2006	Noted
R1-060383	EUTRA FEC Enhancements	Motorola	13.1.3			Not treated
R1-060384	LDPC codes for EUTRA	Motorola	13.1.3		15/02/2006	Revised in R1-060716
R1-060385	Cubic Metric in 3GPP-LTE	Motorola	13.2.3.4			

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060386	Text proposal for replacing "PAPR" with "Power De-rating" in 25.814	Motorola	13.2.3.4		16/02/2006	Noted
R1-060387	RACH Design for E-UTRA	Motorola	13.2.3.1			Not treated
R1-060388	Performance Comparison of Pilot/Reference Signal Structures for E-UTRA Uplink SC-FDMA	Motorola	13.2.2.2			Not treated
R1-060389	E-UTRA SC-FDMA Uplink Resource Block, Resource Allocation & TP	Motorola	13.2.2.4		15/02/2006	Noted
R1-060390	E-UTRA SC-FDMA Uplink Pilot/Reference Signal Design & TP	Motorola	13.2.2.2			Not treated
R1-060391	Uplink UE Capability	Motorola	13.2.5			Not treated
R1-060392	PA power de-rating reduction scheme for DFT-SOFDM and TP	Motorola	13.2.3.4		16/02/2006	some part of text proposal included in R1-060730
R1-060393	UE Power Management for E-UTRA + TP	Motorola	13.2.3.4			Not treated
R1-060394	Variable TTI for LTE	Motorola	13.2.2.4			Not treated
R1-060395	HARQ considerations fro E-UTRA	Motorola	13.2.3.5	R1-060737	16/02/2006	Text proposal was Revised in R1-060737
R1-060396	Downlink Localized and Distributed Multiplexing	Motorola	13.1.3			Not treated
R1-060397	VoIP and HARQ for E-UTRA + TP	Motorola	13.2.3.5	R1-060698		Revised in R1-060698
R1-060398	VoIP Group scheduling	Motorola	13.2.3.2		15/02/2006	Noted
R1-060399	Text proposal for frequency mapping for uplink physical channel	Motorola	13.2.2.4		14/02/2006	Agreed
R1-060400	Resource Allocation mapping rules and TP	Motorola	13.1.3			Not treated
R1-060401	Interference Mitigation via Power Control, FDM Resource Allocation and UE Alignment for E-UTRA +TPs	Motorola	13.2.3.6		14/02/2006	Agreed
~~R1-060402~~	~~CSD and STBC performance~~	~~Motorola~~	~~13.1.3~~			Withdrawn
R1-060403	E-UTRA Uplink Control Channel Design and TP	Motorola	13.2.2.3			Not treated
R1-060404	Uplink H-ARQ timing and number of processes	Motorola	13.2.3.5		16/02/2006	Noted
R1-060405	TP"Uplink H-ARQ timing and number of processes"	Motorola	13.2.3.5		16/02/2006	Noted
~~R1-060406~~	~~Intra frame Code Hopping for 1.28Mcps-TDD~~	~~ZTE~~	~~6.5~~			Withdrawn

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060407	Draft LS answer to RAN3 R3-060085 (=R1-060004) on RRM for LTE	Siemens	5		14/02/2006	Noted
R1-060408	Text proposal to TR 25.903 to clarify terminology for Continuous Connectivity	Ericsson, Lucent, Nokia, Philips, Qualcomm, Siemens	10		13/02/2006	Agreed
R1-060409	Text proposal to TR 25.903 to comparing Continuous Connectivity concepts	Nokia, Philips, Siemens	10	R1-060692	13/02/2006	Revised in R1-060692
R1-060410	Text proposal to TR 25.903 to Continuous Connectivity summary tables	Siemens	10	R1-060696	13/02/2006	Revised in R1-060696
R1-060411	Radio link synchronisation in SIR_target reduction	NEC Group	10		13/02/2006	Revised in R1-060693
R1-060412	Further Simulation Result of High-Rate Space-Time Codes	LG Electronics	13.1.2			Noted
R1-060413	Orthogonal Collaborative Spatial Multiplexing (OCSM) for Uplink E-UTRA	LG Electronics	13.2.2.5			Noted at teleconference
R1-060414	Further simulation results of IDMA-based inter-cell interference cancellation	RITT	13.1.3		14/02/2006	Noted
R1-060415	Requirements of downlink Inter-cell interference detection/subtraction and TP	RITT, Huawei, CATT	13.1.3	R1-0060703	14/02/2006	Text proposal was revised in R1-0060703
R1-060416	Combining Inter-cell-interference co-ordination/avoidance with cancellation in downlink and TP	RITT, Huawei, CATT	13.1.3		14/02/2006	Noted
R1-060417	On generation and allocation of interleaver patterns for interleave-division multiple access	RITT	13.1.3		14/02/2006	Agreed
R1-060418	TP on uplink inter-cell interference cancellation	RITT, Huawei, CATT	13.2.3.6	R1-060704	14/02/2006	Revised in R1-060704
R1-060419	Combining Inter-cell-interference co-ordination/avoidance with cancellation in uplink and TP	RITT, Huawei, CATT	13.2.3.6		14/02/2006	Noted
R1-060420	Offset DFT-Spread OFDM with Generalized Raised-Cosine Filters for Pulse Shaping	RITT, CATT, SHRCWC	13.2.2		16/02/2006	Noted
R1-060421	Eigen-mode close-loop transmission for EUTRA MIMO	RITT, CATT, SHRCWC	13.1.2			Noted
R1-060422	CSI feedback for EUTRA MIMO	RITT, CATT, SHRCWC	13.1.2			Not treated

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060423	Some Simulation Results for OOC Space-Time Diversity Scheme	SHRCWC	13.1.2			Withdrawn
R1-060424	Comparison of PAPR/CM Performance of DFT-S-GMC with Clustered DFT-S-OFDM	SHRCWC	13.2.2			Withdrawn
R1-060425	Initial Performance of DFT-S-GMC with Real Channel Estimation	SHRCWC	13.2.2			Withdrawn
R1-060426	Cell Search Scheme for EUTRA	ETRI	13.1.3			Not treated
R1-060427	Text Proposal for Cell Search and SCH Structure	ETRI	13.1.3			Not treated
R1-060428	Further Consideration of MIMO for Rel.7 WCDMA	Texas Instruments	9		14/02/2006	Noted
R1-060429	Impact of TX diversity on MIMO E-MBMS	Texas Instruments	13.1.2			Noted
R1-060430	System Level Evaluation of Scheduling and Decoding Strategies for MIMO E-UTRA Systems	Texas Instruments	13.1.2			Noted
R1-060431	Aspects and Design of DL SYNC channel (SCH) for E-UTRA	Texas Instruments	13.1.3			Not treated
R1-060432	Timing and cell-specific info detection in cell search procedure for E-UTRA	Texas Instruments	13.1.3			Not treated
R1-060433	Basic Schemes in Downlink MIMO Channel Transmissions	NTT DoCoMo, NEC, Sharp, Toshiba Corporation	13.1.2			Noted
R1-060434	Investigations on Pilot Channel Structure for MBMS in E-UTRA Downlink	NTT DoCoMo, Mitsubishi Electric, Panasonic, Sharp	13.1.3			Not treated
R1-060435	Hybrid ARQ Scheme for E-UTRA Downlink	NTT DoCoMo, Fujitsu, Mitsubishi Electric, NEC, Sharp	13.1.3			Not treated
R1-060436	Comparison of SCH Structures for Timing Detection in E-UTRA Downlink	NTT DoCoMo, NEC, Toshiba Corporation	13.1.3			Not treated
R1-060437	Basic Schemes in Uplink MIMO Channel Transmissions	NTT DoCoMo, NEC, Sharp, Toshiba Corporation	13.2.2.5			Noted
R1-060438	Combined STBC/CDD transmission scheme for multiple antennas	ETRI	13.1.2		17/02/2006	Agreed

3GPP TSG RAN WG1 Meeting #44bis
Athens, Greece, 27 – 31 March, 2006

R1-061099

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060439	Downlink UE bandwidth capability	Samsung	13.1.3			Not treated
R1-060440	Uplink UE bandwidth capability	Samsung	13.2.5			Not treated
R1-060441	Micro cell scenario for early evaluation of MIMO in EUTRA Multiple Access	Nokia	13.1.2	R1-060680		Revised in R1-060680
R1-060442	OFDMA Downlink Physical Layer Measurements - Text proposal	Nokia	13.1.3	R1-060707	14/02/2006	Revised in R1-060707
R1-060443	Downlink cell search design for E-UTRA TDD	TD Tech	13.1.3			Not treated
R1-060444	Text Proposal on Uplink Transmit Antenna Selection for E-UTRA	Institute for Infocomm Research	13.2.2.5	R1-060672		Revised in R1-060672
R1-060445	Draft LS reply to SA4 on Delay Profiles for VoIP	Qualcomm Europe	5	R1-060739		Revised in R1-060739
R1-060446	On the power control for Rel. 6	Qualcomm Europe	6.5		13/01/2006	Noted.
R1-060447	Proposal for selection of a Rel-7 MIMO scheme for the upcoming evaluation phase	Qualcomm Europe	9			Merged into R1-060568
R1-060448	2x2 MIMO with Interference Cancellation: Complexity increase over 1x2 Type III receiver	Qualcomm Europe	9		14/02/2006	Noted
R1-060449	Compatibility analysis: Impact of 2x2 MIMO operation on legacy Rel-5 UEs	Qualcomm Europe	9		14/02/2006	Noted
R1-060450	Further details on HS-SCCH-less operation for VoIP traffic	Qualcomm Europe	10		17/02/2006	Noted
R1-060451	Demodulation impact of DPCCH gating	Qualcomm Europe	10		13/02/2006	Noted
R1-060452	Further details of DRX proposal	Qualcomm Europe	10		17/02/2006	Text proposal was agreed.
R1-060453	F-DPCH support in early Rel-6 UE	Qualcomm Europe	6.5		13/01/2006	Noted.
R1-060454	Overview of DL Spatial Multiplexing Schemes for E-UTRA	Qualcomm Europe	13.1.2			Noted
R1-060455	Control Channel Issues for DL MIMO	Qualcomm Europe	13.1.2			Noted
R1-060456	Link Analysis of Single and Multi Codeword Schemes - No Precoding	Qualcomm Europe	13.1.2			Noted

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060457	Description of Single and Multi Codeword Schemes with Precoding	Qualcomm Europe	13.1.2			Noted
R1-060458	Link Analysis of Single and Multi Codeword Schemes - Precoding	Qualcomm Europe	13.1.2			Noted
R1-060459	Implications of MCW MIMO on DL HARQ	Qualcomm Europe	13.1.2			Noted
R1-060460	DL SDMA in E-UTRA	Qualcomm Europe	13.1.2			Noted
R1-060461	DL PHY channels - Overall structure	Qualcomm Europe	13.1.3			Not treated
R1-060462	DL PHY channels - Channel Multiplexing	Qualcomm Europe	13.1.3			Not treated
R1-060463	Multiplexing DL Multicast and Unicast Transmissions	Qualcomm Europe	13.1.3			Not treated
R1-060464	RV and Modulation Order for Synchronous HARQ in Downlink	Qualcomm Europe	13.1.3			Not treated
R1-060465	DL Acquisition for E-UTRA	Qualcomm Europe	13.1.3			Not treated
R1-060466	Inter-cell Interference Suppression in E-UTRA Downlink	Qualcomm Europe	13.1.3		14/02/2006	Noted
R1-060467	Inter-cell Interference Mitigation on E-UTRA Downlink	Qualcomm Europe	13.1.3		14/02/2006	Noted
R1-060468	DL UE capability: RF and Baseband Limitations	Qualcomm Europe	13.1.3			Not treated
R1-060469	Link Analysis of Uplink Interleaved and Localized FDM Waveforms	Qualcomm Europe	13.2.2.1		15/02/2006	Noted
R1-060470	PAR Reduction through Frequency Domain Spectrum Shaping	Qualcomm Europe	13.2.2.1		16/02/2006	Noted
R1-060471	Circular 16QAM: PAR and Link issues	Qualcomm Europe	13.2.2.1		16/02/2006	Noted
R1-060472	Link Analysis of Uplink CQI Channel	Qualcomm Europe	13.2.2.2			Not treated
R1-060473	Link Analysis of Uplink ACK Channel	Qualcomm Europe	13.2.2.2			Not treated
R1-060474	Uplink Broadband Pilot Structure	Qualcomm Europe	13.2.2.2			Not treated
R1-060475	UL Scheduling	Qualcomm Europe	13.2.2.3			Not treated

3GPP TSG RAN WG1 Meeting #44bis
Athens, Greece, 27 – 31 March, 2006

R1-061099

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060476	Need for Data Associated Control in E-UTRA Uplink	Qualcomm Europe	13.2.2.3			Not treated
R1-060477	UL PHY Channels - Overall Structure	Qualcomm Europe	13.2.2.4		15/02/2006	Noted
R1-060478	UL PHY Channels - Channel Multiplexing	Qualcomm Europe	13.2.2.4		15/02/2006	Noted
R1-060479	Resource Block Allocation for UL Data Transmission	Qualcomm Europe	13.2.2.4		15/02/2006	Noted
R1-060480	Principles of RACH	Qualcomm Europe	13.2.3.1			Not treated
R1-060481	Draft LS Reply for RACH Related Questions	Qualcomm Europe	5			Not treated
R1-060482	Subband Scheduling in E-UTRA Uplink	Qualcomm Europe	13.2.3.2		15/02/2006	Noted
R1-060483	TP on Scheduling for Real Time Services	Qualcomm Europe	13.2.3.2		15/02/2006	include a shortened version of the persistent scheduling description in R1-060722
R1-060484	TP on Fixed Modulation and RV Sequence with Synchronous HARQ in Uplink	Qualcomm Europe	13.2.3.3		15/02/2006	Noted. Text proposal in R1-060725
R1-060485	Uplink Inter-cell Interference Mitigation using Load Indication	Qualcomm Europe	13.2.3.4	R1-060705	14/02/2006	Text proposal was revised in R1-060705
R1-060486	E-UTRA Uplink Intra-cell Power Control	Qualcomm Europe	13.2.3.4			Not treated
R1-060487	TP on UL Interference Suppression Techniques	Qualcomm Europe	13.2.3.6	R1-060706	14/02/2006	Text proposal was revised in R1-060706
R1-060488	TP on UL Interference Mitigation Techniques	Qualcomm Europe	13.2.3.6		14/02/2006	Noted
R1-060489	UL UE capability: RF and Baseband Limitations	Qualcomm Europe	13.2.5			Not treated
R1-060490	Draft LS Reply for Inter-Cell RRM	Qualcomm Europe	5		14/02/2006	Noted
R1-060491	LS on RAN1 discussion about the introduction of 1.6MHz	RAN WG1	5	= R1-060254	13/02/2006	Approved as final version
R1-060492	A simplified TxBF MIMO scheme	RITT	13.1.2			Noted
R1-060493	Alternative approach to the terminology for phase transitions	Infineon	10		13/02/2006	Noted

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060494	Further results of transmit diversity schemes for common, distributed and broadcast channels	Huawei	13.1.2			Noted
R1-060495	Precoded MIMO concept with system simulation results in macro cells	Huawei	13.1.2			Noted
R1-060496	Link Level Simulation Results for SINR and SIR Measurements using Sync Channel	ETRI	13.1.3			Withdrawn
R1-060497	Text Proposal on SINR Measurement	ETRI	13.1.3			Withdrawn
R1-060498	Downlink Control Channel Design for Evolved UTRA	ZTE	13.1.3	= R1-060119		Not treated
R1-060499	Structured LDPC Coding with Rate Matching	ZTE	13.1.3	= R1-060115		Not treated
R1-060500	Cell search scheme for Evolved UTRA	ZTE	13.1.3	= R1-060117		Not treated
R1-060501	Band Information measurement at the Network Side	ZTE	13.1.3	= R1-060120	14/02/2006	Noted
R1-060502	Uplink Reference signal and Uplink Timing Control	ZTE	13.2.2.2	= R1-060122		Not treated
R1-060503	Uplink Timing Control Signal resource allocation	ZTE	13.2.2.3	= R1-060121		Not treated
R1-060504	A Proposal of Group Distributed Allocation with CAZAC Pilots for Uplink	ZTE	13.2.2.2			Not treated
R1-060505	Text Proposal for Channel coding	CATT, China Mobile, LG Electronics, Mitsubishi Electric Corporation, RITT, Huawei, ZTE, Motorola, Samsung	13.1.3			Not treated
R1-060506	Text Proposal for Enhanced Modulation Scheme for OFDMA	KDDI	13.1.3			Not treated
R1-060507	Further Evaluation of R-OFDM	KDDI	13.1.3			Not treated
R1-060508	Further Information on Twin Turbo Decoder	KDDI	13.1.3			Not treated
R1-060509	Constellation Re-arrangement for Repetition Transmission	KDDI	13.2.3.5			Withdrawn

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060510	Twin Turbo Decoder for MIMO Transmission	KDDI	13.1.2			Noted
R1-060511	Adaptive MIMO transmission mode selection for E-UTRA downlink	CCL/ITRI	13.1.2			Not treated
R1-060512	Random Access Transmission with Priority in E-UTRA uplink	CCL/ITRI	13.2.3.1			Not treated
R1-060513	UTRA release 6 turbo coding compatible high throughput architecture with low up-gradation cost	CCL/ITRI	13.2.2.4			Not treated
R1-060514	Text Proposal for Channel coding in E-UTRA	CCL/ITRI	13.2.2.4			Not treated
R1-060515	Puncturing effect for the component code of UTRA release 6 turbo coding	CCL/ITRI	13.2.2.4			Not treated
R1-060516	Cell Search procedure of EUTRA TDD system for the initial synchronization	CATT, RITT	13.1.3			Not treated
R1-060517	Further analysis of the performance of inter-cell interference mitigation with beam-forming	CATT	13.1.3		14/02/2006	Noted
R1-060518	TP for combining beam-forming with other inter-cell interference mitigation approaches	CATT, RITT	13.1.3		14/02/2006	Noted
R1-060519	Numerology of EUTRA TDD co-existing with UTRA TDD LCR Uplink based on SC-FDMA and text proposal for TR 25.814	CATT, TD-Tech, RITT	13.2.2		16/02/2006	Agreed
R1-060520	EUTRA TDD Random Access Procedure	CATT, TD-Tech, RITT	13.2.3.1			Not treated
R1-060521	Views on the High Level Principles of MIMO for unicast traffic in E-UTRA downlink	CATT, RITT	13.1.2			Noted
R1-060522	Further clarifications of the reference signal requirement for downlink dynamic beam-forming and pre-coding in TDD mode	CATT, RITT	13.2.2.2			Not treated
R1-060523	TR25.804CR0002(Rel-6, B) "Analysis of intra-frame Scrambling Code hopping for LCR TDD Enhanced Uplink"	CATT	6.4		13/02/2006	Rejected
R1-060524	TR25.804CR0001r2(Rel-6, B) "Simulation results of LCR TDD enhanced uplink"	CATT	6.4	R1-060679	13/02/2006	Revised in R1-060679
R1-060525	Performance improvement of the rate-compatible LDPC codes	Mitsubishi Electric	13.2.2.4			Not treated

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060526	Comparison between Turbo and LDPC codes under the condition of parallel operation	Mitsubishi Electric	13.2.2.4			Not treated
R1-060527	MBMS Channel Structure for Evolved UTRA	Toshiba Corporation, NTT DoCoMo	13.1.3			Not treated
R1-060528	Interference-aware MIMO mode adaptation	Intel Corporation	13.1.2			Not treated
R1-060529	Interference-aware MIMO feedback: a text proposal	Intel Corporation	13.1.2			Not treated
R1-060530	Synchronization with activation time "now"	LG Electronics	6.5		13/02/2006	Noted
R1-060531	Some considerations for LTE RACH	LG Electronics	13.2.3.1			Not treated
R1-060532	Multiplexing of MBMS and unicast transmission in E-UTRA downlink	LG Electronics	13.1	= R1-060054		Not treated
R1-060533	Text proposal on MBMS multiplexing and transmission	LG Electronics, Huawei, Samsung, ETRI	13.1			Not treated
R1-060534	Further aspects of interference coordination	LG Electronics	13.1		14/02/2006	Noted
R1-060535	Downlink/uplink transmission with a scalable bandwidth	LG Electronics	13.2.2		16/02/2006	Noted
R1-060536	Uplink resource request for uplink scheduling	LG Electronics	13.2.2.3			Not treated
R1-060537	Uplink pilot for channel quality measurement	LG Electronics	13.2.2.2			Not treated
R1-060538	Text proposal on uplink pilot for channel quality measurement	LG Electronics	13.2.2.3			Not treated
R1-060539	L1/L2 collaborated signaling for delivering CQI feedback information	LG Electronics	13.2.2.3			Not treated
R1-060540	Performance of localized and distributed SC-FDMA	LG Electronics	13.2.2.4	R1-060690		Revised in R1-060690
R1-060541	Some considerations for random access frame design	Huawei	13.2.3.1			Not treated
R1-060542	Multiplexing of uplink reference signals	Huawei	13.2.2.2			Not treated
R1-060543	TP on uplink reference signals structure	Huawei	13.2.2.2			Not treated
R1-060544	Consideration on MBMS frame structure	Huawei	13.1.3			Not treated
R1-060545	Some Clarifications on Soft Frequency Reuse Scheme	Huawei, RITT	13.1.3		14/02/2006	Noted

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060546	Considerations on Synchronous HARQ in Uplink	Huawei	13.2.3.1		16/02/2006	Text proposal was merged into R1-060737
R1-060547	MBMS service Multiplexing	Huawei	13.1.3			Not treated
R1-060548	Further Consideration on Multiplexing of Unicast and MBMS	Huawei	13.1.3			Not treated
R1-060549	Fully DTXed solution for ConCon	Huawei	10		17/02/2006	Noted
R1-060550	Link simulation results on Fully DTXed solution for ConCon	Huawei	10		17/02/2006	Noted
R1-060551	TP for 25.903 on Fully DTXed solution for ConCon	Huawei	10		17/02/2006	Noted
R1-060552	Open loop transmit diversity for full rate and flexible antenna configurations	France Telecom, Orange	13.1.2			Noted
R1-060553	25.213 CR0084(Rel-6, F) "Correction to number of configured DPDCHs when E-DPDCH is configured"	Philips	6.4	R1-060682	13/02/2006	Revised in R1-060682
R1-060554	25.214 CR0416(Rel-6, F) "Correction to number of configured DPDCHs in relation to E-DPDCH power scaling"	Philips	6.4		13/02/2006	Agreed
R1-060555	MIMO for HSDPA using PARC-Diversity	Philips	9		14/02/2006	Noted
R1-060556	Mapping between higher-layer PDUs and resource blocks in E-UTRA	Philips	13.1.3			Not treated
R1-060557	Text proposal for mapping between higher-layer PDUs and resource blocks in E-UTRA	Philips	13.1.3			Not treated
R1-060558	Frequency-Distributed transmission in E-UTRA downlink	Philips	13.1.3			Noted
R1-060559	HARQ signalling considerations for E-UTRA	Philips	13.2.2.3			Not treated
R1-060560	Random Access and UL Sync considerations and discussion of L1 questions from RAN2	Philips	13.2.3.1			Not treated
R1-060561	Performance of Multi-beam MIMO for EUTRA Downlink	Fujitsu	13.1.2			Noted
R1-060562	Extension of UTRA turbo channel coding for rates less than 1/3	Fujitsu	13.1.3			Not treated
R1-060563	Channel Design and Long CP Sub-frame Structure for Initial Cell Search	Fujitsu	13.1.3			Not treated
R1-060564	Considerations on CAZAC Reference-Signal for E-UTRA Uplink	Fujitsu	13.2.2.2			Not treated

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060565	UE complexity for WCDMA MIMO	Ericsson	9		14/02/2006	Noted
R1-060566	Closed loop transmit diversity in HSDPA	Ericsson	9		14/02/2006	Noted
R1-060567	Initial MIMO performance in the micro cellular environment	Ericsson	9		14/02/2006	Noted
R1-060568	On the choice of MIMO technology in Rel-7	Ericsson	9			Merged into R1-060568
R1-060569	Continuous Connectivity Concept Considerations	Ericsson	10		13/02/2006	Noted
R1-060570	New UL DPCH Slot Format for both Active and Inactive Periods	Ericsson	10		13/02/2006	Agreed
R1-060571	Power Offsets for SIR Target Reduction	Ericsson	10	R1-060694	13/02/2006	Revised in R1-060694
R1-060572	LTE physical-layer models	Ericsson	13		14/02/2006	Noted
R1-060573	E-UTRA DownlinkControl Signaling - Overhead Assessment	Ericsson, NTT DoCoMo	13.1.3			Not treated
R1-060574	MBMS for E-UTRA	Ericsson	13.1.3			Not treated
R1-060575	Text proposal E-UTRA MBMS	Ericsson	13.1.3			Not treated
R1-060576	Paging for E-UTRA	Ericsson	13.1.3			Not treated
R1-060577	Text Proposal on E-UTRA Paging	Ericsson	13.1.3			Not treated
R1-060578	E-UTRA downlink scrambling	Ericsson	13.1.3		14/02/2006	Noted
R1-060579	E-UTRA downlink scrambling, text proposal	Ericsson	13.1.3		14/02/2006	Noted
R1-060580	Frequency-domain power adaptation, NTT DoCoMo	Ericsson, NTT DoCoMo	13.1.3			Not treated
R1-060581	Uplink Scrambling for E-UTRA	Ericsson	13.2.2		16/02/2006	Noted
R1-060582	Text proposal on UE-specific uplink scrambling	Ericsson, NTT DoCoMo	13.2.2		16/02/2006	Noted
R1-060583	E-UTRA Uplink Control Signaling - Overhead Assessment	Ericsson, NTT DoCoMo	13.2.2.3			Not treated
R1-060584	E-UTRA Random Access	Ericsson	13.2.3.1			Not treated
~~R1-060585~~	~~E-UTRA Random Access – Simulation Results~~	~~Ericsson~~	~~13.2.3.1~~			Withdrawn
R1-060586	DL/UL inter-cell interference co-ordination/avoidance - impact on the specifications	Ericsson, NTT DoCoMo	13.2.3.6		14/02/2006	Noted
R1-060587	UE maximum-bandwidth capability and related issues	Ericsson, NTT DoCoMo	13.2.5			Not treated

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060588	Further results on Downlink Beamforming with Opportunistic Scheduling (DBOS)	BenQ Mobile	13.1.2			Not treated
R1-060589	Reconfiguration of EUDCH	Panasonic	6.4		13/02/2006	Noted
R1-060590	Fixed position and flexible position in TR25.993	Panasonic	6.5		13/02/2006	Noted
R1-060591	Uplink DPCCH Gating - Link Level Performance	Nokia	10		13/02/2006	Noted
R1-060592	TP on link level performance of UL DPCCH gating	Nokia	10		13/02/2006	Agreed
R1-060593	TP on F-DPCH performance with Uplink DPCCH Gating Concept	Nokia	10	R1-060746	17/02/2006	Revised in R1-060746
R1-060594	Uplink DPCCH Gating - System Level Performance	Nokia	10		17/02/2006	Noted
R1-060595	TP on system level performance of UL DPCCH gating	Nokia	10		17/02/2006	Agreed
R1-060596	UE battery life improvement with uplink DPCCH gating concept	Nokia	10		17/02/2006	Noted
R1-060597	Preliminary CR considerations for UL DPCCH gating concept	Nokia	10		17/02/2006	Noted
R1-060598	TP on Continuous Connectivity concepts and summary tables on gating	Nokia	10		17/02/2006	Agreed
R1-060599	Text proposal for TR 25.903 on SIR_target reduction for VoIP	Siemens	10	R1-060695	13/02/2006	Revised in R1-060695
R1-060600	UL/DL idle symbol suppression in half duplex communications	Mitsubishi Electric, IPWireless	13.2.2		16/02/2006	Agreed
R1-060601	Scalable band width & Physical channel mapping for L1/L2 control channel	NEC Group, NTT DoCoMo	13.1.3			Not treated
R1-060602	Scalable bandwidth and UE capability	NEC Group	13.1.3		16/02/2006	Noted
R1-060603	Considerations on Uplink Pilot Design Using CAZAC	NEC Group	13.2.2.2			Not treated
R1-060604	Performance of CAZAC pilot sequence for D-FDMA and L-FDMA with frequency hopping for EUTRA Uplink	NEC Group	13.2.2		15/02/2006	Noted

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060605	Call Setup Delay: Radio link reconfiguration with activation time now"	Siemens	5		13/02/2006	Noted
R1-060606	Downlink signalling for uplink scheduling	Siemens	13.2.2.3			Not treated
R1-060607	Downlink resource multiplexing	Siemens	13.1.3			Not treated
R1-060608	Analysis of DPCH Gating	Siemens	10		13/02/2006	Noted
R1-060609	Selection of LDC codes for MIMO LTE	Siemens	13.1.2			Not treated
R1-060610	Feedback considerations for MIMO LTE	Siemens	13.1.2			Noted
R1-060611	Definition of open and closed loop MIMO for LTE	Siemens	13.1.2			Noted
R1-060612	Draft Reply LS on RAB and the error-delay-profile for the performance characterization of VoIMS over HSDPA/EUL	Lucent Technologies	5		13/02/2006	Revised in R1-060677
R1-060613	HS-SCCH enhancement for VoIP	Lucent Technologies, Vodafone Group	10		17/02/2006	Noted
R1-060614	Performance Benefits from Precoding in E-UTRA MIMO	Motorola	13.1.2			Noted
R1-060615	MIMO Evaluation Proposal	Motorola	9		14/02/2006	Noted
R1-060616	Support for Evolution of HSPA ² (HSDPA+HSUPA)	3G Americas, Cingular, Rogers, Andrew, Ericsson, HP, Lucent, Motorola, Nokia, Nortel, Siemens	13		17/02/2006	Noted
R1-060617	Scope of future HSPA Evolution	Cingular, Rogers, Andrew, Ericsson, HP, Lucent, Motorola, Nokia, Nortel, Siemens	13		17/02/2006	Noted
R1-060618	Hearing Aid Compatibility (HAC) of VoIP over HSPA	Cingular Wireless	13		17/02/2006	Noted
R1-060619	25.221CR0135 (Rel-7, B)"Introduction of the Physical Layer Common Control Channel (PLCCH)"	IPWireless	6.5		13/02/2006	Agreed

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060620	25.222CR0126 (Rel-7, B)"Introduction of the Physical Layer Common Control Channel (PLCCH)"	IPWireless	6.5		13/02/2006	Agreed
R1-060621	25.224CR0149 (Rel-7, B)"Introduction of the Physical Layer Common Control Channel (PLCCH)"	IPWireless	6.5		13/02/2006	Agreed
R1-060622	25.201CR0023 (Rel-7, B)"Introduction of 7.68Mcps TDD option"	IPWireless	8		13/02/2006	Agreed
R1-060623	25.221CR0136 (Rel-7, B)"Introduction of 7.68Mcps TDD option"	IPWireless	8		13/02/2006	Agreed
R1-060624	25.222CR0127 (Rel-7, B)"Introduction of 7.68Mcps TDD option"	IPWireless	8		13/02/2006	Agreed
R1-060625	25.223CR0038 (Rel-7, B)"Introduction of 7.68Mcps TDD option"	IPWireless	8		13/02/2006	Agreed
R1-060626	25.224CR0150 (Rel-7, B)"Introduction of 7.68Mcps TDD option"	IPWireless	8		13/02/2006	Agreed
R1-060627	25.225CR0079 (Rel-7, B)"Introduction of 7.68Mcps TDD option"	IPWireless	8		13/02/2006	Agreed
R1-060628	MICH aspects for 7.68 TDD option	IPWireless	8		13/02/2006	Agreed
R1-060629	IPDL aspects for 7.68 TDD option	IPWireless	8		13/02/2006	Agreed
R1-060630	Proposed LS for input to TS 25.202	IPWireless	8		13/02/2006	Revised in R1-060687
R1-060631	TR 25.826 v0.3.1	IPWireless	7		13/02/2006	Noted
R1-060632	Modulation for 3.84Mcps TDD Enhanced Uplink	IPWireless	7		13/02/2006	Agreed to be included in v.1.0.0 with change ,arks approved in R1-060685
~~R1-060633~~	~~E-DCH transport channel processing for 3.84Mcps TDD Enhanced Uplink~~	~~IPWireless~~	~~7~~			Withdrawn
~~R1-060634~~	~~Channelisation code assignment for 3.84Mcps TDD Enhanced Uplink~~	~~IPWireless~~	~~7~~			Withdrawn
~~R1-060635~~	~~EU TDD: Multiplexing of E-UCCH and E-DCH~~	~~IPWireless~~	~~7~~			Withdrawn
R1-060636	Simulation Assumption for MIMO Urban Micro Scenario (TDD)	IPWireless	9			Not treated
R1-060637	Initial Access Procedure and Uplink Synchronisation	IPWireless	13.2.3.1			Not treated
R1-060638	Power Control Methods for Unpaired LTE Uplink	IPWireless	13.2.3.4			Not treated
R1-060639	Duplex Capability	IPWireless	13.2.5			Not treated

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060640	Downlink Synchronisation Signal Placement	IPWireless	13.1.3			Not treated
R1-060641	CQI signalling for LTE	IPWireless	13.2.3.3			Not treated
R1-060642	Further discussion and initial simulation results for super-imposed reference symbols for E-UTRA downlink	Philips	13.1.3			Not treated
R1-060643	MIMO resource definition for E-UTRA	Philips	13.1.2			Noted
R1-060644	Further discussion of proposals for Continuous Connectivity	Philips	10	R1-060691	13/02/2006	Revised in R1-060691
R1-060645	Further evaluation of pilot channel allocation	Nortel	13.1.3			Not treated
R1-060646	Update of MIMO and HARQ interactions	Nortel	13.1.3			Not treated
R1-060647	DL Adaptive STTD/SM Performance Evaluation for E-UTRA	Nortel	13.1.2			Not treated
R1-060648	Closed loop MIMO for E-UTRA DL	Nortel	13.1.2			Withdrawn
R1-060649	Resource block allocation for downlink data transmission for E-UTRA	Nortel	13.1.3			Not treated
R1-060650	Cell search / Synchronization channel design for E-UTRA	Nortel	13.1.3			Not treated
R1-060651	TP for Cell search / Synchronization channel design for E-UTRA	Nortel	13.1.3			Not treated
R1-060652	System Level Performance Evaluation for E-UTRA UL with multi-user MIMO	Nortel	13.2.2.5			Noted at teleconference
R1-060653	Consideration on UL RACH scheme for LTE	Nortel	13.2.3.1			Not treated
R1-060654	Text proposal on random access scheme	Nortel	13.2.3.1			Not treated
R1-060655	Text proposal on random access procedure and scheduling	Nortel	13.2.3.1			Not treated
R1-060656	Channel Sounding Overhead Analysis	Nortel	13.2.3.3		15/01/2006	Noted
R1-060657	Orthogonal Multi-User MIMO based Channel-Dependent Scheduling for SC-FDMA on E-UTRA Uplink	Nortel	13.2.3.2		15/02/2006	Noted
R1-060658	Text proposal on orthogonal pilots to support multi-user MIMO for SC-FDMA	Nortel	13.2.2.2			Withdrawn
R1-060659	Closed Loop-MIMO Pre-coding and Feedback Design	Nortel	13.1.2			Noted
R1-060660	Differential Encoding/Decoding for An Arbitrary Codebook	Nortel	13.1.2			Not treated
R1-060661	Error Free Encoder for a Differential Code	Nortel	13.1.2			Not treated

3GPP TSG RAN WG1 Meeting #44bis
Athens, Greece, 27 – 31 March, 2006

R1-061099

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060662	Performance comparison between rate-1 codes for 4 Tx antennas case	Nortel	13.1.2			Noted
R1-060663	Proposal for RAN1 Answer on LS on "RRM for LTE" from RAN3	Alcatel	5		14/02/2006	Noted
R1-060664	Further Aspects on MIMO for DL LTE	Alcatel	13.1.2			Noted
R1-060665	Text proposal for TR 25.814, Section 7.3.3.1, UE measurements	Alcatel	13.1.3	R1-060721	14/02/2006	Revised in R1-060721
R1-060666	System Simulation Results for Downlink Interference Coordination	Alcatel	13.1.3	R1-060666		Revised in R1-060666
R1-060667	Interference Coordination for E-UTRA Uplink	Alcatel	13.2.3.6		14/02/2006	Noted
R1-060668	Uplink sounding for obtaining MIMO channel information at Node B in EUTRA	Motorola	13.1.2			Not treated
R1-060669	SC-FDMA PAPR Reduction	Siemens	13.2.2.1	R1-060720		Revised in R1-060720
R1-060670	Interference Mitigation by Partial Frequency Reuse	Siemens	13.2.3.6	= R1-060135	14/02/2006	Noted
R1-060671	SLS Results for MIMO with Unitary Precoding	Intel Corporation	13.1.2			Noted
R1-060672	Codebook design for precoded MIMO	Intel Corporation	13.1.2			Noted
R1-060673	LLS Results for MIMO with Unitary Precoding	Intel Corporation	13.1.2			Noted
R1-060674	Response to ITU-R WP8F on PDNR ITU-R M.[IP CHAR] (To: RAN1, RAN2, RAN3, RAN4, RAN5, CT1, CT3, CT4, CT5, CT6, SA1, SA2, SA3, SA4, SA5)	ITU-R Ad Hoc	5	= RT-060002	13/02/2006	Noted
R1-060675	Reply to LS on Reference RAB Configurations for MBMS (R2-053142)	Qualcomm Europe	5		13/02/2006	Approved as final version
R1-060676	Reply to LS on Value range for Qoffmbms (R2-053171)	LG Electronics	5		13/02/2006	Approved as final version
R1-060677	Draft Reply LS on RAB and the error-delay-profile for the performance characterization of VoIMS over HSDPA/EUL	Lucent Technologies	5		17/02/2006	Revised in R1-060740 merge with R1-060739
R1-060678	Draft Response LS to ITU-R Ad Hoc	Telecom Italia	5		17/02/2006	Approved as final version in R1-060741
R1-060679	TR25.804CR0001r3(Rel-6, B) "Simulation results of LCR TDD enhanced uplink"	CATT	6.4	(R1-060524)	17/02/2006	Agreed

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060680	Micro cell scenario for early evaluation of MIMO in EUTRA Multiple Access	Nokia	13.1.2	(R1-060441)		Noted
R1-060681	HSPA Evolution	Ericsson	13		17/02/2006	Noted
R1-060682	25.213 CR0084r1(Rel-6, F) "Correction to number of configured DPDCHs when E-DPDCH is configured"	Philips, Ericsson, LGE, Nokia, Panasonic, Qualcomm	6.4	(R1-060553)	17/02/2006	Agreed
R1-060683	[DRAFT] Reply to LS on Synchronisation of Reconfiguration with activation time "now"	LG Electronics, Ericsson, Vodafone	6.5		17/02/2006	Agreed as final version in R1-060743
R1-060684	[DRAFT] LS on support for different E-DCH and HS-DSCH serving cells	Qualcomm Europe	6.5		13/02/2006	Agreed as final version in R1-060697
R1-060685	TR 25.826 v1.0.0	IPWireless	7			Approved version as v1.0.0
R1-060686	TS 25.202 v1.1.0	IPWireless	8			Approved version as v1.1.0
R1-060687	LS for input to TS 25.202	IPWireless	8		14/02/2006	Approved as final version
R1-060688	TR 25.809 v1.0.1	IPWireless	8		14/02/2006	Endorsed as v2.0.0 in R1-060701
R1-060689	System Simulation Results for Downlink Interference Coordination	Alcatel	13.1.3	(R1-060666)	14/02/2006	Noted
R1-060690	Performance of localized and distributed SC-FDMA	LG Electronics	13.2.2.4	(R1-060540)	15/02/2006	Noted
R1-060691	Text proposal on ConCon Initiation and Termination with new DPCCH Slot Format	Philips, Ericsson	10	(R1-060644)	17/02/2006	Agreed
R1-060692	Text proposal to TR 25.903 to comparing Continuous Connectivity concepts	Nokia, Philips, Siemens	10	(R1-060409)	17/02/2006	Agreed
R1-060693	TP on Radio link synchronisation in SIR_target reduction	NEC, Siemens	10		17/02/2006	Agreed
R1-060694	TP on Power Offsets for SIR Target Reduction	Ericsson	10	(R1-060571)	17/02/2006	Agreed
R1-060695	Text proposal for TR 25.903 on SIR_target reduction for VoIP	Siemens	10	(R1-060599)	17/02/2006	Agreed
R1-060696	Text proposal to TR 25.903 to Continuous Connectivity summary tables	Siemens	10	(R1-060410)	17/02/2006	Agreed
R1-060697	LS on support for different E-DCH and HS-DSCH serving cells	RAN WG1	5			Approved version
R1-060698	VoIP and HARQ for E-UTRA + TP	Motorola	13.2.3.5	R1-060722	15/02/2006	Revised in R1-060722
R1-060699	Inclusion of additional data on RACH	Panasonic	13.2.3.1	R1-060161	16/02/2006	Noted

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060700	RACH preamble evaluation in E-UTRA Uplink	Panasonic	13.2.3.1			Not treated
R1-060701	TR 25.809 v2.0.0	IPWireless	8			Approved version as v2.0.0
R1-060702	Interference cancellation for LTE & Revised TP for TR25.814	France Telecom, Orange, Cingular Wireless, IPWireless, T-Mobile, Vodafone	13.1.3	(R1-060359)	17/02/2006	Agreed
R1-060703	Revised TP on downlink inter-cell interference cancellation	RITT, Huawei, CATT	13.1.3	R1-060749	17/02/2006	Revised in R1-060749
R1-060704	TP on uplink inter-cell interference cancellation	RITT, Huawei, CATT	13.2.3.6	R1-060752	17/02/2006	Revised in R1-060752
R1-060705	TP on Uplink Inter-cell Interference Mitigation using Load Indication	Qualcomm Europe, IPWireless	13.2.3.4	(R1-060485)	17/02/2006	Agreed
R1-060706	TP on UL Interference Suppression Techniques	Qualcomm Europe	13.2.3.6	(R1-060487)	17/02/2006	Agreed
R1-060707	OFDMA Downlink Physical Layer Measurements - Text proposal	Nokia, Ericsson	13.1.3	(R1-060442)		Revised in R1-060721
R1-060708	Selection of a Rel-7 MIMO scheme for the upcoming evaluation phase	Qualcomm Europe, 3, Cingular Wireless, Ericsson, Lucent Technologies	9		14/02/2006	Noted
R1-060709	LS to RAN1 on additional WB-AMR RAB combination, VT bearer configuration and Uplink streaming 128 kbps combinations (To: RAN1)	RAN WG2, Vodafone	5	= R2-060706	16/02/2006	Noted
R1-060710	Text proposal on high level principles of MIMO for unicast traffic	MIMO AH Chairman	13.1.2		17/02/2006	Agreed
R1-060711	Text proposal for TR25.814 section 9.1.2.7	Ericsson	13.2.3.6		15/02/2006	Agreed
R1-060712	Text proposal for TR25.814 section 7.1.2.6	Ericsson	13.1.3		15/02/2006	Agreed
R1-060713	Draft LS answer to RAN3 R3-060085 (=R1-060004) on RRM for LTE	Siemens, Ericsson	13.2.2.6		15/02/2006	Approved as the final version

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060714	TR25.814 v.1.1.0 Physical Layer Aspects for Evolved UTRA	Editor (NTT DoCoMo)	13			Endorsed version
R1-060715	Text Proposal on Open-Loop Transmit Diversity for Evolved UTRA	Samsung	13.1.2	R1-060337	17/02/2006	Agreed
R1-060716	Variable TTI for LTE TP	Motorola, Ericsson	13.2.2.4		17/02/2006	Revised in R1-060751
R1-060717	Text Proposal on MIMO for E-MBMS	Samsung, TI	13.1.2	R1-060340		Noted
R1-060718	Text proposal on resource unit	Samsung	13.2.2.4	(R1-060350)	17/02/2006	Agreed
R1-060719	LS answer to R3-060085 (=R1-060004) on RRM for LTE	RAN WG1	13.2.2.6			Approved version
R1-060720	SC-FDMA PAPR Reduction	Siemens	13.2.2.1	(R1-060669)	17/02/2006	Revised in R1-060731, Joint text proposal on variable roll-off FFT pre-processing in R1-060732
R1-060721	OFDMA Downlink Physical layer measurements – text proposal	Nokia, Ericsson, Alcatel	13.1.3	(R1-060665)		Revised in R1-060742
R1-060722	Scheduling TP	Motorola, Qualcomm Europe	13.2.3.5	(R1-060698)	17/02/2006	Agreed
R1-060723	LTE MIMO AH Chairman's note	LTE MIMO AH Chairman	13.1.2		17/02/2006	Noted
R1-060724	Link Adaptation for E-UTRA Uplink	NTT DoCoMo, Ericsson, Fujitsu, NEC, Panasonic, Sharp, Toshiba Corporation, Samsung	13.2.3.3	(R1-060324)	17/02/2006	Agreed
R1-060725	TP on uplink link adaptation	Qualcomm Europe	13.2.2.3		17/02/2006	Agreed
R1-060726	MIMO Precoding text	RAN1 MIMO Ad Hoc	13.1.2		17/02/2006	Agreed
R1-060727	LS on Real Time Gaming Requirements (To: SA1, Cc: RAN1,3,4)	RAN WG2, Cingular Wireless	5	= R2-060740	16/01/2006	Noted
R1-060728	LS on input to TS25.202 (To: RAN1, Cc: RAN2, RAN4)	RAN WG3, IPWireless	5	= R3-060366	16/02/2006	Noted
R1-060729	Draft Reply LS to R1-060709	Vodafone	5			Discuss on e-mail reflector until 22nd Feb.

3GPP TSG RAN WG1 Meeting #44bis
Athens, Greece, 27 – 31 March, 2006

R1-061099

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060730	Revised text proposal on UL modulation scheme	Nokia	13.2.2.1	(R1-060293)	17/02/2006	Agreed
R1-060731	Text Proposal on SC-FDMA PAPR Reduction	Siemens	13.2.2.1	(R1-060720)		Revised in R1-060734
R1-060732	Text Proposal on SC-FDMA PAPR Reduction	Motorola	13.2.2.1		17/02/2006	Agreed
R1-060733	UE Bandwidth capability, text proposal	Ericsson	13.1.3		17/02/2006	Agreed
R1-060734	Text Proposal on SC-FDMA PAPR Reduction	Siemens, Motorola, Ericsson, Qualcomm, NTT DoCoMo	13.2.2.1	(R1-060731)	17/02/2006	Agreed
R1-060735	Synchronization with activation time "now" ; Impacts on R,99, Rel-4, and Rel.5	Siemens	6.5		17/02/2006	Noted. Reconfiguration of UL scrambling code for a UE is not considered to make the radio link appear to be "new".
R1-060736	Response to LS on input to TS 25.202 (To: RAN1)	RAN WG4, IPWireless	5	= R4-060333	16/02/2006	Noted.
R1-060737	HARQ E-UTRA TP	Motorola, Ericsson, Qualcomm, Huawei	13.2.3.5	(R1-060395)	17/02/2006	Agreed
~~R1-060738~~	~~Text proposal on hybrid ARQ for TR-25.814~~	~~Ericsson~~	~~13.1.3~~			Withdrawn
R1-060739	Draft LS reply to SA4 on Delay Profiles for VoIP	Qualcomm Europe	5	(R1-060445)	17/02/2006	Revised in R1-060740
R1-060740	Draft LS on RAB and the error-delay-profile for the performance characterization of VoIMS over HSDPA/EUL	Qualcomm Europe, Lucent Technologies	5		17/02/2006	Approved as final version in R1-060753
R1-060741	Response LS to ITU-R Ad Hoc	RAN WG1	5			Approved version
R1-060742	OFDMA Downlink Physical layer measurements – text proposal	Nokia, Ericsson, Alcatel, Samsung	13.1.3	(R1-060721)	17/02/2006	Revised in R1-060742
R1-060743	Reply to LS on Synchronisation of Reconfiguration with activation time "now"	RAN WG1	6.5			Approved version
R1-060744	Response to LS on 25.202 (To: RAN1)	RAN WG2, IPWireless	5	= R2-060739	17/01/2006	Noted
R1-060745	TS25.202 v1.1.1	IPWireless	8			E-mail approval until 24th Feb.
R1-060746	TP on F-DPCH performance with Uplink DPCCH Gating Concept	Nokia	10	(R1-060593)		E-mail approval until 24th Feb.

3GPP TSG RAN WG1 Meeting #44bis
Athens, Greece, 27 – 31 March, 2006

R1-061099

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060747	LS on LTE Channel Models and simulations (To: RAN1)	RAN WG4, Ericsson	5	= R4-060355	17/02/2006	Noted
R1-060748	TR25.903 v. 0.2.1	Editor (Siemens)	10			E-mail approval for v0.3.0 until 27th Feb.
R1-060749	Revised TP on downlink inter-cell interference cancellation	RITT, Huawei, CATT	13.1.3	(R1-060703)		E-mail approval until 24th Feb.
R1-060750	OFDMA Downlink Physical layer measurements – text proposal	Nokia, Ericsson, Alcatel, Samsung	13.1.3	(R1-060742)		E-mail approval until 24th Feb.
R1-060751	Variable TTI for LTE TP	Motorola, Ericsson	13.2.2.4			E-mail approval until 24th Feb.
R1-060752	TP on uplink inter-cell interference cancellation	RITT, Huawei, CATT	13.2.3.6			E-mail approval until 24th Feb.
R1-060753	LS on RAB and the error-delay-profile for the performance characterization of VoIMS over HSDPA/EUL	RAN WG1	5			Approved version
R1-060754	TR25.903 v 0.3.0	Editor (Siemens)	10			This document was available on the reflector after the meeting
R1-060755	Approved Report from RAN1#43 Meeting	RAN1 Secretary	3			Approved version
R1-060756	Approved Report from RAN1 LTE Ad Hoc Meeting	RAN1 Secretary	3			Approved version
R1-060757	OFDMA Downlink Physical layer measurements – text proposal	Nokia	13.1.3	(R1-060750)		Agreed on the reflector after the meeting
R1-060758	Variable TTI for LTE TP	Motorola, Ericsson	13.2.2.4			Agreed on the reflector after the meeting
R1-060759	TP on F-DPCH performance with Uplink DPCCH Gating Concept	Nokia	10	(R1-060746)		Agreed on the reflector after the meeting
R1-060760	LTE MIMO teleconference Chairman's note	LTE MIMO AH Chairman	13.1.2			Noted.
R1-060761	Extension of Uplink MIMO SC-FDMA with Preliminary Simulation results	InterDigital	13.2.2.5	(R1-060365)		Agreed on the reflector after the meeting
R1-060762	Text Proposal on Uplink Transmit Antenna Selection for E-UTRA	Institute for Infocomm Research, Mitsubishi Electric, NTT DoCoMo	13.2.2.5	(R1-060444)		Agreed on the reflector after the meeting

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date	Conclusion/Decision
R1-060763	TR25.814 v.1.1.1 Physical Layer Aspects for Evolved UTRA	Editor (NTT DoCoMo)	13			This version includes all agreed text proposal at this meeting and was sent out on the e-mail reflector after the meeting.

Annex F: List of actions (E-mail Approval)

1. Regarding LS from RAN2 in R1-060709 "LS to RAN1 on additional WB-AMR RAB combination, VT bearer configuration and Uplink streaming 128 kbps combinations, confirm L1 parameters via email until 22 Feb, if no concerns raised, send an LS to RAN2 indicating OK from RAN1 in R1-060729. (Vodafone)
2. E-mail Approval of text proposal until 24th February: R1-060746 "TP on F-DPCH performance with Uplink DPCCCH Gating Concept" (Nokia)
3. E-mail approval of updated version TR25.903 v0.2.1 in R1-060748 as v0.3.0 until 27th February (Siemens)
4. E-mail Approval of text proposal until 24th February: R1-060749 "Revised TP on downlink inter-cell interference cancellation (RITT)
5. E-mail Approval of text proposal until 24th February: R1-060750 "OFDMA Downlink Physical layer measurements – text proposal" (Nokia)
6. E-mail Approval of text proposal until 24th February: R1-060751 "Variable TTI for LTE TP" (Motorola)
7. E-mail Approval of text proposal until 24th February: R1-060752 "TP on uplink inter-cell interference cancellation" (RITT)