

**3GPP TSG RAN WG1 Meeting #43
Seoul, Korea, 7 – 11 November, 2005**

R1-051568

Agenda item 3
Title: Approved Report of 3GPP TSG RAN WG1 #42bis in San Diego
(San Diego, USA, 10 – 14 October, 2005)
Document for: Information
Source: RAN WG1 Vice Chairman / RAN WG1 secretary



Fact Summary

Meeting: 3GPP TSG RAN WG1 #42bis
Dates: 10th through 14th October, 2005
Venue: The Westin Horton Plaza Hotel, San Diego, USA
Host: Qualcomm
Attendees: 153 delegates
Documents: 275 (including some withdrawn and post-meeting artefacts)

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Executive summary

WG RAN1#42bis took place in Westin San Diego, USA. The meeting started at 9:05 on Monday 10th October and finished at 14:30 on Friday 14th October

On the first day morning, the incoming LS and Rel.6 documents were discussed. The total number of agreed CR was four. After that, the documents for Rel-7 TDD aspects were treated.

LTE session started from the morning on the first day, 10th of October. At first, "Uplink Macro-Diversity Gains" was discussed. Many companies contributed the results of simulations for quantifying the gains with Uplink Macro-diversity and outputs to the other RAN WGs (R1-051255).

The LTE topics were mainly discussed from the second to the forth day. On the second day, 11th of October, at first, "UL MIMO for LTE" was discussed. After that, "Uplink Access schemes" such as OFDMA and SC-OFDMA was discussed. Many companies are interested in SC-FDMA and contributed its reference signal structure and multiplexing method. Also some performance evaluations were investigated. The MIMO scheme for LTE and Rel-7 work item were discussed in parallel session through the forth day, 13th of October.

On the final day, 14th of October, the some of the revised CR and outgoing LS were treated and agreed. Also, the some of text proposals for TR25.814 were treated and agreed. For the WI "Continuous connectivity for packet data users" it was decided to introduce TR 25.903 to cover the corresponding work, a first version and a corresponding LS to inform other RAN WGs under email discussion. The first version of TR and the LS were agreed after the email discussion.

The number of contributions for this meeting was 264, and those documents were categorized as followed.

Agenda Item	Input Document	Discussed Document
Liaison statement handling	13	13
Maintenance of R99, Rel4, Rel5, Rel6	8	8
3.84 Mcps TDD Enhanced Uplink	5	5
7.68 Mcps TDD Option	9	9
Evolved UTRA and UTRAN (physical Layer)	182	170
MIMO in UTRA (Rel'7 work item)	19	19
Improved Support of IMS Realtime Services using HSDPA/E-DCH	0	0
Continuous Connectivity for Packet Data Users	21	21

Note: This minutes was made by referring to the report from RAN1 Vice Chairman, Dr. Sadayuki ABETA.

1. Opening of the meeting

10/10/2005 09:05

RAN1 Chairman, Mr. Dirk Gerstenberger and welcomed the participants to the 42bis RAN WG1 meeting and opened the meeting at 09.05.

Mr. Serge Willenegger from Qualcomm Europe welcomed the delegates on behalf of the host company, Qualcomm.

1.1 Call for IPR

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

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

The members take note that they are hereby invited:

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

2 Approval of the agenda

R1-051020 Draft Agenda

(RAN1 Chairman)

10/10/2005 09:05 Presented by Mr. Dirk Gerstenberger.

Discussion (Question / Comment): Mr. RAN1 convenor showed the expected schedule on this week.

Decision: This document was approved.

3. Approval of the minutes from previous meetings

R1-051021 Draft report from RAN#42

(RAN1 Secretary)

10/10/2005 09:10 Presented by Mr. Dirk Gerstenberger.

Discussion (Question / Comment):

Decision: This document was approved in R1-051290.

R1-051290 Approved report from RAN#42

(RAN1 Secretary)

R1-051075 Summary from TSG RAN#29 meeting

(RAN1 Chairman)

10/10/2005 09:10 Presented by Mr. Dirk Gerstenberger.

Discussion (Question / Comment):

Decision: This document was noted.

4. Liaison statement handling

- R1-051022 LS on VoIMS RAB (To: RAN1) (WG RAN2, Samsung)**
10/10/2005 09:25 Presented by Dr. Juho Lee.
Discussion (Question / Comment): The discussion continues during the week in E-mail, provide draft reply LS for November meeting.
Decision: This document was noted.
- R1-051023 LS on verification of parameters for proposed HSDPA + AMR_WB RAB in TS 34.108 (To:RAN5, Cc:RAN1) (WG RAN2, Nokia)**
10/10/2005 09:32 Presented by Mr. Markku Tarkiainen
Discussion (Question / Comment):
Decision: This document was noted
- R1-051024 Response to LS (R5-051582) on reference radio bearer configurations for E-DCH testing (To:RAN5, Cc:RAN1) (WG RAN2, Ericsson)**
10/10/2005 09:35 Presented by Dr. Stefan Parkvall
Discussion (Question / Comment):
Decision: This document was noted
- R1-051025 LS on Radio link failure criteria on Fractional DPCH (To:RAN3, Cc:RAN1, RAN4) (WG RAN2, Nortel)**
10/10/2005 09:36 Presented by Ms. Sarah Boumendil
Discussion (Question / Comment):
Decision: This document was noted
- R1-051026 Reply LS to RAN1 on AMR_WB CS + DCH PS radio bearer configurations for TR 25.993 (To: RAN1, Cc:RAN5) (WG RAN2, Vodafone)**
10/10/2005 09:37 Presented by Mr. Yannick Le Pezennec
Discussion (Question / Comment):
Decision: This document was noted
- R1-051027 Non-serving E-DCH to serving E-DCH power ratio (To: RAN2, Cc:RAN1, RAN4) (WG RAN3, Samsung)**
10/10/2005 09:39 Presented by Dr. Juho Lee
Discussion (Question / Comment):
Decision: This document was noted
- R1-051028 LS on RAB and the error-delay-profile for the performance characterization of VoIMS over HSDPA/EUL (To:RAN1, RAN2, RAN5) (WG SA4, Lucent)**
10/10/2005 09:42 Presented by Dr. Rainer Bachl
Discussion (Question / Comment):
Decision: This document was noted.
- R1-051199 Draft Reply LS on Compressed Mode and HARQ interaction for the 10msec TTI (Siemens)**
10/10/2005 09:45 Presented by Dr. Thomas Chapman
Discussion (Question / Comment):
Decision: This document was not agreement on the benefits. It was decided to continue the discussion until Thursday evening and reply LS on Friday morning (Draft LS R1-051243)
- R1-051243 Draft Reply LS on Compressed Mode and HARQ interaction for the 10msec TTI (Siemens)**
14/10/2005 08:45 Presented by Dr. Thomas Chapman
Discussion (Question / Comment):

Decision: This draft LS was agreed with some revision in R1-051287

R1-051287 **Reply LS on Compressed Mode and HARQ interaction for the 10msec TTI (To: RAN2)** **(RAN WG1)**

R1-051246 **Letter from TTA PG302 (Portable Internet Project Group) on WiBro** **(TTA)**

11/10/2005 08:08 Presented by Mr. Dirk Gerstenberger.

Discussion (Question / Comment):

Decision: This document was noted

R1-051285 **LS on High Bit Rate SRB** **(WG RAN2, Siemens)**

14/10/2005 14:09 Presented by Ms. Malgorzata Wimmer

Discussion (Question / Comment):

Decision: This document was noted. Prepare a response for RAN1#43.

R1-051286 **LS on verification of L1 parameters for multi-rate AMR-NB RAB using SRB#5**
(WG RAN2, Nortel)

14/10/2005 14:11 Presented by Ms. Evelyne Le Strat

Discussion (Question / Comment):

Decision: This document was noted. Prepare a response for RAN1#43.

5. Maintenance of R99, Rel4, Rel5, Rel6

5.1 R99 CRs + shadow CRs

No input

5.2 Rel4 CRs + shadow CRs

No input

5.3 Rel5 CRs + shadow CRs

No input

5.4 Rel6 CRs

R1-051030 25.212CR0228(Rel-6, F) "PLmax alignment over all UE categories" (Nokia)

10/10/2005 10:09 Presented by Mr. Kari Renta-aho

Discussion (Question / Comment):

Decision: This CR was agreed.

R1-051078 25.211CR0224 (Rel-6, F) "Clean up due to removal of NTPC=1" (Ericsson)

10/10/2005 10:04 Presented by Mr. Johan Bergman

Discussion (Question / Comment):

Decision: This CR was agreed

R1-051079 25.212CR0229 (Rel-6, F) "Correction of SF when a CCTrCH is mapped onto four E-DPDCHs" (Ericsson)

10/10/2005 10:12 Presented by Ms. Ning Ne.

Discussion (Question / Comment):

Decision: This CR was agreed

R1-051080 Puncturing limit for Conversational / speech 12.2 kbps + Interactive 0 kbps (Ericsson)

10/10/2005 10:14 Presented by Mr. Johan Bergman

Discussion (Question / Comment):

Decision: This document was noted

R1-051081 Draft LS on Puncturing limit for Conversational / speech 12.2 kbps + Interactive 0 kbps (Ericsson)

10/10/2005 10:16 Presented by Mr. Johan Bergman

Discussion (Question / Comment):

Decision: It is decided to continue the discussion during the week and revise in R1-051288. After the discussion, the LS was approved in R1-051288.

R1-051288 LS on Puncturing limit for Conversational / speech 12.2 kbps + Interactive 0 kbps (To: RAN5, Cc: RAN2) (RAN WG1)

R1-051194 25.211CR0225(Rel-6, F) "Combination of DPCCH and E-DCH" (LG Electronics)

10/10/2005 10:06 Presented by Dr. Joon-Kui Ahn.

Discussion (Question / Comment):

Decision: This CR was agreed in principle. It was decided to revise in R1-051244

R1-051244 25.211CR0225r1(Rel-6, F) "Combination of DPCCH and E-DCH" (LG Electronics)

10/10/2005 9:12 Presented by Dr. Joon-Kui Ahn.

Discussion (Question / Comment):

Decision: This CR was agreed

Withdrawn

R1-051168 25.212CR0230 (Rel-6, F) "Clarification on mapping of CCTrCH on physical channels" (STMicroelectronics)

Discussion (Question / Comment):

Decision: This document was withdrawn because there was no presenter.

5.5 Other

No input

6. 3.84 Mcps TDD Enhanced Uplink

- R1-051231 TR 25.826 v0.1.1** (IPWireless)
10/10/2005 10:20 Presented by Mr. Nicholas Anderson
Discussion (Question / Comment):
Decision: This document was approved in v.0.2.0 in R1-051245.
- R1-051245 TR 25.826 v0.2.0** (IPWireless)
- R1-051232 EU-TDD: Power Control of E-DCH physical channels** (IPWireless)
10/10/2005 10:23 Presented by Mr. Nicholas Anderson
Discussion (Question / Comment):
Decision: This document was revision in R1-051247.
- R1-051247 EU-TDD: Power Control of E-DCH physical channels** (IPWireless)
14/10/2005 9:21 Presented by Mr. Nicholas Anderson
Discussion (Question / Comment):
Decision: This TP was agreed to be included in TR
- R1-051233 EU-TDD: HARQ timing aspects** (IPWireless)
10/10/2005 10:23 Presented by Mr. Nicholas Anderson
Discussion (Question / Comment):
Decision: This TP was agreed to be included in TR

7. 7.68 Mcps TDD Option

- R1-051221 TR 25.809 v0.3.1** (IPWireless)
10/10/2005 11:15 Presented by Dr. Martin Beale
Discussion (Question / Comment):
Decision: This document was approved in v.0.4.0 in R1-051250.
- R1-051250 TR 25.809 v0.4.0** (IPWireless)
- R1-051222 TS 25.202 v0.2.1** (IPWireless)
10/10/2005 11:15 Presented by Dr. Martin Beale
Discussion (Question / Comment):
Decision: This document was approved in v.0.3.0 in R1-051251
- R1-051251 TS 25.202 v0.3.0** (IPWireless)
- R1-051223 7.68Mcps TDD option: HSDPA aspects of TS 25.221** (IPWireless)
10/10/2005 11:18 Presented by Dr. Martin Beale
Discussion (Question / Comment):
Decision: TP for 25.202 and 25.809 was agreed
- R1-051224 SCH channel definition for the 7.68Mcps TDD option** (IPWireless)
10/10/2005 11:20 Presented by Dr. Martin Beale
Discussion (Question / Comment):
Decision: TP for 25.202 and 25.809 was agreed
- R1-051226 Physical layer procedures for the 7.68Mcps TDD option** (IPWireless)
10/10/2005 11:25 Presented by Dr. Martin Beale
Discussion (Question / Comment):
Decision: TP for 25.202 and 25.809 was agreed
- R1-051228 Tx diversity for the 7.68Mcps option** (IPWireless)
10/10/2005 11:30 Presented by Mr. Nicholas Anderson
Discussion (Question / Comment):
Decision: TP for 25.202 and 25.809 was agreed
- R1-051230 7.68Mcps TDD option: Beacon channel aspects** (IPWireless)
10/10/2005 11:31 Presented by Mr. Nicholas Anderson
Discussion (Question / Comment):
Decision: TP for 25.202 and 25.809 was agreed
- Withdrawn**
- R1-051225 Transport channel processing for the 7.68Mcps TDD option** (IPWireless)
- R1-051227 Timeslot formats for the 7.68Mcps TDD option** (IPWireless)
- R1-051229 7.68Mcps TDD option: Physical channel combination in uplink** (IPWireless)

8. Evolved UTRA and UTRAN (physical Layer)

R1-051029 TR25.814 v.0.2.1 Physical Layer Aspects for Evolved UTRA

(Editor, NTT DoCoMo)

10/10/2005 11:35 Presented by Dr. Sadayuki Abeta

Discussion (Question / Comment):

Decision: This document was approved in v.0.3.0 in R1-051252

R1-051252 TR25.814 v.0.3.0 Physical Layer Aspects for Evolved UTRA

(Editor, NTT DoCoMo)

8.1 Uplink Macro-Diversity Gains (SC-FDMA, OFDMA)

R1-051031 EUTRA Uplink Cell Edge Enhancements and Macrodiversity (Motorola)

10/10/2005 11:45 Presented by Mr. Robert love.

Discussion (Question / Comment): The question and commented was raised on the number of retransmission by Ericsson. Motorola commented the both performance will improve when the number of retransmission is increased. The question on the channel scheduling operation was raised by Qualcomm. Motorola commented that TTI=2msec, Modified PF, maximum transmission power of UE of 24dBm were assumed. Regarding the user throughput,

Decision: This document was noted

R1-051037 Performance of uplink macro diversity in Evolved UTRA (Samsung)

10/10/2005 11:56 Presented by Ms. Heo Youn Hyoung

Discussion (Question / Comment): Ericsson commented the user throughput of 30kbps is low for LTE. Samsung commented that the number of user is 10 in this case but cell throughput is 2870kbps.

Decision: This document was noted

R1-051076 UL Macro-Diversity - System Level Results (Siemens)

10/10/2005 12:15 Presented by Dr. Hidelang Thomas

Discussion (Question / Comment): Additional results are in R1-051248.

Decision: This document was noted

R1-051248 UL Macro-Diversity Further System Level Considerations (Siemens)

Decision: This document was noted without presentation.

R1-051087 UL macrodiversity (Nokia)

10/10/2005 12:25 Presented by Mr. Jussi Kahtava

Discussion (Question / Comment): The definition of 95% throughput is same as that of 5% CDF of user throughput

Decision: This document was noted

R1-051098 Evaluation of MDC gains for the WCDMA based E-UTRA proposal (Qualcomm Europe)

10/10/2005 11:38 Presented by

Discussion (Question / Comment):

Decision: This document was noted

R1-051126 System Simulation results on Uplink Macro Diversity (Alcatel)

10/10/2005 13:55 Presented by Dr. Christian Gerlach

Discussion (Question / Comment): Question on fast cell selection interval was raised by Ericsson. Alcatel comment the 100msec is assumed.

Decision: This document was noted

R1-051141 Inter-Node B Macro Diversity in Evolved UTRA Uplink – Additional Results (NTT DoCoMo, Fujitsu, Mitsubishi Electric Corporation, NEC, Panasonic, SHARP, Toshiba Corporation)

10/10/2005 14:05 Presented by Dr. Kenichi Higuchi

Discussion (Question / Comment):

Decision: This document was noted

R1-051182 Uplink Macro Diversity for E-UTRA - Summary of Results (Ericsson)

10/10/2005 14:10 Presented by Dr. Stephan Parkvall

Discussion (Question / Comment): The question and comments on power control method, the receiver structure for SHO, MCS selection method for SHO and simulation method were raised by Motorola and Samsung. Ericsson commented that the performance is not so sensitive to the target value of power control. Samsung commented that the performance difference between Ericsson and NTT DoCoMo in small cell size situation. Ericsson commented that traffic model in NTT DoCoMo is full buffer, the traffic model in Ericsson is on-off traffic model.

Decision: This document was noted

R1-051183 Uplink macro-diversity for E-UTRA - Further Results (Ericsson)

Discussion (Question / Comment):

Decision: This document was noted

R1-051201 Evaluation of Uplink Macro Diversity (Lucent Technologies)

10/10/2005 14:25 Presented by Dr. Rainer Bachl

Discussion (Question / Comment):

Decision: This document was noted

R1-051236 Issue and Discussion on Uplink Macro-Diversity (Cingular Wireless)

10/10/2005 14:37 Presented by Mr. Sharat Chandor

Discussion (Question / Comment): Nokia commented that Access scheme and Macro diversity should be decided by November. Samsung commented that the gain of macro-diversity will decrease when the interference mitigation technique is applied. Cingular commented make-before-break has benefit for real-time service. T-mobile comments that although GSM is not used SHO, the make-before-break HO is also achieved in GSM. Vodafone commented that 0msec delay may not be really needed even in real-time service. The comparable delay in GERAN is the requirement in TR25.913.

Decision: This document was noted

**R1-051249 Draft LS on TSG RAN WG1 Uplink MDC studies to TSG RAN WG2/WG3
(Nokia, Siemens, Fujitsu, Motorola, Samsung, NEC, Panasonic,
NTT DoCoMo, Alcatel)**

10/10/2005 15:30 Presented by Mr. Jussi Kahtava

Discussion (Question / Comment): Long discussion for the structure of LS on uplink MDC studies. Drafting session continued until 21:10.

Decision: This document was noted.

R1-051254 Summary of results to put in the LS

10/10/2005 21:06 Presented by Mr. Jussi Kahtava

Discussion (Question / Comment):

Decision: This draft LS was agreed with removing the coverage performance in R1-051255

**R1-051255 Summary of results to put in the LS (To: RAN2, RAN3, Cc: TSG RAN)
(RAN WG1)**

Not Treated.

R1-051253 EUTRA Uplink Cell Edge Enhancements and Macrodiversity (Motorola)

8.1.1 Results from email reflector discussions

No input

8.2 Further discussion on SC-FDMA/OFDMA for Uplink

OFDMA

R1-051068 Pilot patterns in OFDM LTE uplink (ZTE) (Resubmission of R1-050838)

11/10/2005 8:12 Presented by Ms. Zhao Meng

Discussion (Question / Comment):

Decision: This document was noted.

R1-051165 Proposal for the UL multiple access scheme for E-UTRA (Nortel) (Resubmission of R1-050926)

11/10/2005 8:22 Presented by Ms. Evelyne Le Strat.

Discussion (Question / Comment): Question was raised on the usage of STC for MIMO pilot structure by ZTE. Nortel commented STC cannot help pilot performance.

Decision: This document was noted.

R1-051166 Text proposal for multiplexing structure for UL OFDMA (Nortel, Intel Corporation) (Resubmission of R1-050976)

11/10/2005 8:30 Presented by Ms. Evelyne Le Strat.

Discussion (Question / Comment): Ericsson asked the meaning of examples in text proposal. Nortel commented this is a general example and we can evaluate the performance based on these examples.

Motorola comments that we should consider who evaluates, which method, etc. Qualcomm commented there are another structures for out band pilot. Those schemes should be considered.

Decision: This document was revised in R1-051256.

R1-051256 Text proposal for multiplexing structure for UL OFDMA (Nortel, Intel Corporation)

14/10/2005 9:22 Presented by Ms. Evelyne Le Strat

Discussion (Question / Comment):

Decision: This document was revised in R1-051289.

R1-051289 Text proposal for multiplexing structure for UL OFDMA (Nortel)

14/10/2005 14:13 Presented by Ms. Evelyne Le Strat

Discussion (Question / Comment):

Decision: This TP was agreed

R1-051240 UL OFDMA Performance with Real Channel Estimation (Nortel)

11/10/2005 8:47 Presented by Mr. Moussa Abdi.

Discussion (Question / Comment): Ericsson asked where you can see the results that overhead of OFDM is smaller than that of SC-FDMA from the simulation. Nortel commented that simulations have done. Question was raised on channel estimation by Qualcomm. Nortel commented channel estimation perform in on TTI. Samsung asked why the performance of with/without Diversity is same in P.10 and P.12. Nortel commented the performances may be crossing in low error rate region.

Decision: This document was noted.

SC-FDMA

R1-051033 Further Topics on Uplink DFT-SOFDM for EUTRA (Motorola)

11/10/2005 9:43 Presented by Dr. Vijay Nangia

Discussion (Question / Comment): Samsung commented the performance of L-FDMA is better than that of D-FDMA. The performance may degrade in high Doppler region since you cannot employ the interpolation in time domain. Motorola stated that Samsung poor performance of D-FDMA was without pilot staggering and that pilot staggering should be used. Ericsson commented the L-FDMA with frequency scheduling can achieve better performance than that of D-FDMA. Motorola agreed to the Ericsson's comments and they support both L-FDMA and D-FDMA.

Decision: This document was noted

R1-051058 RACH Preamble Design (Texas Instruments)

11/10/2005 9:58 Presented by Dr. Tim Schmidl

Discussion (Question / Comment): Motorola asked the frame length. TI comments 1 msec same as W-CDMA.

Decision: This document was noted

R1-051066 SINR improvement of Data symbols by combining with CP in SC-FDMA with Frequency Domain Processing (Panasonic)

11/10/2005 10:12 Presented by Mr. Kenichi Miyoshi

Discussion (Question / Comment): Nokia asked the gain on BLER and data rate. The simulation results will be provided next meeting and revisit at RAN#43.

Decision: This document was noted.

R1-051145 CQI-based Transmission Power Control for Control Channel in Evolved UTRA Uplink (NTT DoCoMo, Fujitsu, NEC, Panasonic, SHARP, Toshiba Corporation) (Revision of R1-050852)

11/10/2005 10:05 Presented by Dr. Hiroyuki Atarashi.

Discussion (Question / Comment): Question was raised on SCCH with AMC. NTT DoCoMo commented that no AMC is applied but power control is used for SCCH. RAN1 chair comments that this is the issue of BS implementation. NTT DoCoMo commented that it is true if all users allocate shared channel. We need more discussion for the case users not allocated shared channel.

Decision: This document was noted.

R1-051133 DFT-S-GMC: GMC based SC-FDMA for 3GPP LTE uplink (SHRCWC, RITT)
R1-051134 On the implementation of DFT-S-GMC (SHRCWC, RITT)
R1-051135 Performance comparison between DFT-S-GMC and DFT-S-OFDM (SHRCWC, RITT)

11/10/2005 11:14 Presented by Dr. Yang Yang

Discussion (Question / Comment): Samsung commented that what filter is used in transmitter. RITT commented that FTT is used all bandwidth. Orange commented that guard band decrease the spectrum efficiency. RITT commented that it is true but OFDM also needs the guard band.

Decision: This document was noted.

R1-051039 Data and Control Multiplexing in DFT-S-OFDM (Samsung)

11/10/2005 11:38 Presented by Dr. Farooq Khan.

Discussion (Question / Comment):

Decision: This document was noted

R1-051143 Multiplexing Method of Shared Control Channel in Uplink Single-Carrier FDMA Radio Access (NTT DoCoMo, Fujitsu, Mitsubishi Electric Corporation, NEC, Panasonic, SHARP, Toshiba Corporation) (Revision of R1-050591)

11/10/2005 11:50 Presented by Dr. Kenichi Higuchi

Discussion (Question / Comment):

Decision: The revised text proposal including Samsung' proposal in R1-051258.

R1-051258 TP for Multiplexing Method of Shared Control Channel in Uplink Single-Carrier FDMA Radio Access (NTT DoCoMo, Fujitsu, Mitsubishi Electric Corporation, NEC, Panasonic, Samsung, SHARP, Toshiba Corporation)

Discussion (Question / Comment):

Decision: This TP was agreed

R1-051062 On Uplink Pilot in EUTRA SC-OFDMA (Texas Instruments)

11/10/2005 12:16 Presented by Dr. Tarik Muharemovic

Discussion (Question / Comment): Question was raised on the usage of CAZAC code from IPW. TI commented each user use different code.

Decision: This document was noted.

R1-051191 Uplink pilot for SC-FDMA (Huawei)

11/10/2005 13:42 Presented by Mr. Gaoke Du

Discussion (Question / Comment): Cingular asked the preference pilot structure. Huawei commented that it depends on the channel condition but 1/2 - 1/4 is their preference.

Decision: This document was noted.

R1-051142 Orthogonal Pilot Channel in the Same Node B in Evolved UTRA Uplink (NTT DoCoMo, Fujitsu, Mitsubishi Electric Corporation, NEC, Panasonic, SHARP, Toshiba Corporation) (Revision of R1-050851)

11/10/2005 14:00 Presented by Dr. Kenichi Higuchi

Decision: This document was noted.

11/10/2005 11:50 Presented by Dr. Hiroyuki Atarashi.

Discussion (Question / Comment):

Decision: This document was noted.

11/10/2005 14:23 Presented by Mr. Diptendu Mitra

Discussion (Question / Comment): Question was raised on the pilot structure in D-FDMA from Motorola. NEC commented that the performance of D-FDMA would be improved when the pilot structure is modified. Question was raised on frequency hopping from Qualcomm. NEC commented that the frequency hopping is not used for channel dependent scheduling.

Decision: This document was noted.

11/10/2005 14:34 Presented by Dr. Tarik Muharemovic

Discussion (Question / Comment):

Decision: This document was noted.

Revised TP on UL pilots for SC-FDMA in R1-051259 (based on discussion of R1-051164, 1191, 1142, 1153, 1033).

14/10/2005 9:46 Presented by Dr. Erik Dahlman.

Discussion (Question / Comment):

Decision: This TP was agreed.

11/10/2005 14:59 Presented by Dr. Stephan Parkvall.

Discussion (Question / Comment): Question was raised on spectrum shaping filter from LGE. Ericsson commented that spectrum shaping filter is used for reducing the PAPR. Nortel commented that there is no flexibility if all use used “L”. Ericsson commented that “L” is used for specified users. Other users can use different value. Huawei commented that the spectrum shaping filter can be mapped before sub-carrier mapping.

Decision: This document was noted. The text proposal was revised in R1-051260.

14/10/2005 9:58 Presented by Dr. Stephan Parkvall.

Discussion (Question / Comment):

Decision: This TP was agreed.

11/10/2005 16:23 Presented by Dr. Durga Malladi

Discussion (Question / Comment):

Decision: This document was noted.

11/10/2005 16:01 Presented by Mr. Jung Hoon Lee.

Discussion (Question / Comment):

Decision: This document was noted

R1-051088 Coverage comparison between UL OFDMA and SC-FDMA (Nokia)

11/10/2005 16:09 Presented by Mr. Jussi Kahtava

Discussion (Question / Comment):

Decision: This document was noted.

R1-051099 Considerations on OFDMA and SC-FDMA based uplink for E-UTRA evaluation (link aspects) (Qualcomm Europe)

11/10/2005 16:14 Presented by Dr. Durga Malladi

Discussion (Question / Comment):

Decision: This document was noted.

R1-051101 Description and link simulations for SC-FDMA based E-UTRA uplink evaluation (Qualcomm Europe)

Discussion (Question / Comment):

Decision: This document was noted.

R1-051139 Performance results for uplink SC-FDMA vs OFDMA (RITT)

11/10/2005 16:31 Presented by

Discussion (Question / Comment): Question was raised on MMSE receiver from Ericsson. RITT commented that performance of MMSE is not investigated but the tendency would be same. Motorola commented that the performance is too good since it achieve BER of 10⁻² in SNR of -8dB

Decision: This document was noted

R1-051161 UL evaluation for SC-FDMA and OFDMA with real channel estimation (Nortel)

11/10/2005 16:45 Presented by Mr. Moussa Abdi.

Discussion (Question / Comment): Ericsson commented that the 6/70 and 1/70 are different value.

Decision: This document was noted.

- PAPR/CM-

R1-051032 Tone Reservation for OFDMA PAPR Reduction (Motorola)

11/10/2005 17:05 Presented by Mr.

Discussion (Question / Comment):

Decision: This document was noted

R1-051038 Spectrum shaping filtering in DFT-spread OFDM (Samsung)

11/10/2005 17:15 Presented by Dr. Joonyoung Cho.

Discussion (Question / Comment):

Decision: This document was noted

R1-051092 Improved SC-FDMA PAPR reduction by non root-raised cosine spectrum-shaping functions (Huawei)

11/10/2005 17:20 Presented by Dr. Mattias Wennström

Discussion (Question / Comment):

Decision: This document was noted.

R1-051151 PAPR-Reduction Performance in SC-FDMA Transmission (Intel Corporation, NTT DoCoMo)

11/10/2005 17:24 Presented by Mr. Wolf Guy.

Discussion (Question / Comment):

Decision: This document was noted.

R1-051185 PAR-reducing modulation for E-UTRA SC-FDMA uplink (Ericsson)

R1-051184 PAR-reducing modulation for E-UTRA SC-FDMA uplink, Text proposal (Ericsson, Huawei)

11/10/2005 17:30 Presented by Dr. Erik Dahlman.

Discussion (Question / Comment): Question was raised on merit of p/2-BPSK by Phillips. Ericsson commented that it depends on cell radius. This text proposal is considered with R1-051260.

Decision: This document was noted.

R1-051197 Text proposal on PAPR reduction for SC-FDMA

(Huawei)

Discussion (Question / Comment):

Decision: No presentation since this is treated with R1-051260.

R1-051120 Considerations on OFDMA and SC-FDMA based uplink for E-UTRA evaluation (PAR aspects)

(Qualcomm Europe)

11/10/2005 17:42 Presented by Dr. Durga Malladi

Discussion (Question / Comment):

Decision: This document was noted.

R1-051237 PAPR and Cubic Metric from a System Point of View for EUTRA Uplink

(Motorola)

11/10/2005 17:46 Presented by Mr. Robert Love.

Discussion (Question / Comment):

Decision: This document was noted.

TDD/FDD Aspects

R1-051173 Analysis of Commonalities between TDD & FDD

(RITT, CMCC, CATT, Huawei, ZTE, TD-Tech)

11/10/2005 17:52 Presented by Mr. Lin Hui.

Discussion (Question / Comment): Motorola commented that the commonality between TDD and FDD is important. It seems this discussion is a little premature since detail parameter is not discussed yet. IPWireless commented that it is reasonable to optimise relevant characteristics of the air interface according to the duplexing situation but not reasonable to define separate substantially different air interfaces. Only aspects of the air interface that are specifically related to the duplex situation should be altered and these should be justified by performance gains.

Decision: This document was noted

R1-051174 TR structure text proposal for 25.814 (CATT, RITT, Huawei, ZTE, TD-Tech)

11/10/2005 18:10 Presented by Mr. Ke Wang

Discussion (Question / Comment): Motorola commented no separate section is needed to keep same baseband structure for TDD. T-mobile commented that the same structure is desirable. IPWireless commented that the proposal goes against the guidance from RAN in 25.913 and against the decisions made in the RAN1 LTE Ad hoc in June and in subsequent meetings.

Decision: This TP was not agreed.

R1-051181 Different aspects in evaluation of TDD and FDD

(Samsung)

11/10/2005 18:21 Presented by Mr.

Discussion (Question / Comment): Motorola commented single standard for FDD and TDD in IEEE802.16e is going well. LTE can be single standard. Samsung commented the TDD system should be optimized for TDD feature.

Decision: This document was noted

8.2.1 Results from email reflector discussions

R1-051138 Consideration on uplink MA scheme of EUTRA TDD

(RITT, CATT, ZTE, Intel, Huawei, TD-tech)

11/10/2005 18:45 Presented by Mr. Lin Hui

Discussion (Question / Comment): IPW commented it is not sufficient OFDM is better in Uplink by showing advantage of TDD. Vodafone commented that the requirement TR25.913 show that same access scheme is required in FDD and TDD. DFT-S-OFDM can also use channel reciprocity.

Decision: This document was noted

After the presentation and discussion about the documents in section 8.2, the next step about the UL MA was discussed. Mr. RAN1 chairman commented that if we consolidate UP MA in SC-FDMA, non WDCMA, we can go ahead more efficiently. But Vodafone and Nortel commented that it is too early to decide the MA scheme and we need the system level

evaluation for the decision. From Qualcomm, it was commented that we need certainly the system level evaluation and we just only have the results showing the single-carrier MA scheme is better.

8.3 Further aspects of OFDMA for Downlink

Pilots

R1-051065 Non-Pilot Reference Symbols in OFDM Downlink (Panasonic)

12/10/2005 08:35 Presented by Mr. Christian Wengerter.

Discussion (Question / Comment): Question was raised on decoding impact from Siemens. Panasonic commented that the impact of overhead has not been investigated. That impact should be studied

Decision: This document was noted.

R1-051034 Further Topics on Downlink Pilot Design for EUTRA (Motorola)

12/10/2005 08:42 Presented by Mr. Brain Classon.

Discussion (Question / Comment): Question was raised on the multiple antenna case from TI. Motorola commented this scheme can support 4 antenna case. Qualcomm commented it is not clear the effect of power saving since UE should be buffering the data.

Decision: This document was noted.

R1-051035 Text Proposal for Downlink Pilot Design for EUTRA (Motorola)

12/10/2005 09:00 Presented by

Discussion (Question / Comment):

Decision: This document was noted.

R1-051040 Downlink pilot structure (Samsung)

12/10/2005 09:14 Presented by

Discussion (Question / Comment): Huawei commented that there has a possibility to improve the performance of the scattered pilot structure. TI commented that this interpolation cannot be used for multicast transmission.

Question was raised on 64QAM transmission from Qualcomm. Samsung commented that both performances would degrade.

Decision: This document was noted.

R1-051054 Downlink Pilot Structure for Evolved UTRA (Toshiba)

12/10/2005 09:24 Presented by

Discussion (Question / Comment): Samsung commented that common pilot should be studied first. Nortel commented that supporting the 350km/h is not an option.

Decision: This document was noted.

R1-051060 Performance and Implementation Aspects for Scattered and TDM Pilot in EUTRA OFDMA Downlink (Texas Instruments)

12/10/2005 09:40 Presented by Dr. Aris Papasakellariou

Discussion (Question / Comment): Motorola commented that the difference between TDM and scattered is channel estimation quality. However, the performance of TDM structure would be improved. TI commented that TDM pilot is needed for dedicated pilot symbol.

Decision: This document was noted.

R1-051069 Pilot patterns in OFDM LTE downlink (ZTE) (Resubmission of R1-050839)

12/10/2005 09:52 Presented by Ms. Zaho Meng

Discussion (Question / Comment): Since the 2 antenna receiver is mandatory in TR25.913, the performance should be compared in case of 2 antenna.

Decision: This document was noted.

R1-051074 Common Pilot Channel Mapping for EUTRA Downlink (NEC Group)

12/10/2005 09:57 Presented by Mr. Diptendu Mitra

Discussion (Question / Comment): Nortel commented that this merit is raised on the TDM control channel mapping. However, there is no agreement on channel mapping at this moment. Ericsson commented that several companies pointed out Layer1 control signalling (scheduling) could be available at early stage. Question was raised on the performance in low speed from TI. NEC commented that thank to averaging in frequency domain, the performance of TDM is better than that of scattered

Decision: This document was noted.

R1-051093 Performances of FH pilot patterns in multi-cell environment (Huawei)

12/10/2005 10:13 Presented by Dr. Brainslav Popovic

Discussion (Question / Comment): Question was raised on performance of ideal channel estimation from Qualcomm. Huawei commented that it will be provided in next meeting.

Decision: This document was noted.

R1-051104 Considerations on pilot structure for OFDMA based E-UTRA downlink evaluation (Qualcomm Europe)

12/10/2005 11:11 Presented by Dr. Durga Malladi

Discussion (Question / Comment): Question was raised on sub-carrier distance. Qualcomm commented that 10% pilot is assigned for pilot channel.

Decision: This document was noted

R1-051136 On pilot patterns in the downlink MIMO OFDMA transmissions in E-UTRA (RITT)

12/10/2005 11:20 Presented by Mr. Lin Hui

Discussion (Question / Comment):

Decision: This document was noted.

R1-051155 Proposal for the DL pilots for E-UTRA (Nortel)

12/10/2005 11:27 Presented by

Discussion (Question / Comment):

Decision: This document was noted.

R1-051157 Text proposal for the DL pilot multiplexing (Nortel)

12/10/2005 11:34 Presented by Ms. Evelyne Le Strat.

Discussion (Question / Comment):

Decision: This document was noted.

R1-051200 Downlink pilot channel structure and overhead (Siemens)

12/10/2005 11:36 Presented by Dr. Thomas Chapman.

Discussion (Question / Comment): IPWireless commented that it is needed to study the case of no adjacent sub-frame.

Decision: This document was noted.

R1-051089 DL pilot structure and synchronization aspects (Nokia)

R1-051242 DL pilot structure and synchronization aspects(Nokia) (Revision of R1-051089)

12/10/2005 11:50 Presented by Mr. Jussi Kahtava

Discussion (Question / Comment): Question and comment were raised on the multiplexing of each antenna. Nokia commented that dedicated pilot will allocate to antenna 3 and 4 in addition to the common pilot channel. Qualcomm asked whether Nokia used causal or non-causal estimation. Nokia commented that causal estimation was employed. Also Nokia commented that 2D Winner filter is applied regarding the interpolation method.

(Discussion for cell search part) Nokia commented that there is a possibility UE search the limited bandwidth.

Decision: This document was noted.

R1-051170 Pilot Structure Consideration for TDD-OFDM LTE Downlink (CATT, RITT, TD Tech)

12/10/2005 11:50 Presented by Mr. Shiqiang Suo

Discussion (Question / Comment): IPWireless commented that interpolation over 2 frames cannot be applied in TDD case in all time.

Decision: This document was noted.

R1-051187 E-UTRA downlink reference signal structure (Ericsson, NTT DoCoMo)

12/10/2005 12:14 Presented by Dr. Erik Dahlman from Ericsson.

Discussion (Question / Comment): Ericsson commented that at this stage there is a possibility to include the FH. The primary pilot needs enough power. It should be studied for the case of broadcast/multicast.

Decision: This document was noted

R1-051195 Pilot Structure for Evolved UTRA OFDMA Downlink (Sharp)

12/10/2005 13:44 Presented by Mr. Keiichi Hibi

Discussion (Question / Comment):

Decision: This document was noted.

Conclusion:

- One OFDM symbol in a fixed position (in time domain) contains primary reference signal (FFS whether on all sub-carriers and whether the sub-carrier can change (frequency hopping)).
 - Additional reference signal(s): FFS whether always present on all sub-carriers and whether in fixed or non-fixed positions. (FFS whether the sub-carrier can change (frequency hopping)).
- Revise text proposal (R1-051187) to R1-051264.

R1-051264 TP for Downlink pilot structure
(Alcatel, Ericsson, Huawei, IPWireless, Lucent, Mitsubishi, Motorola, NEC, Nokia, Nortel, NTT DoCoMo, Panasonic, Qualcomm Europe, Samsung, Sharp, Siemens, Texas Instruments, Toshiba) (Revision in R1-051187)

Decision: This document was revised in R1-051270.

R1-051270 TP for Downlink pilot structure
(Alcatel, Ericsson, Huawei, IPWireless, Lucent, Mitsubishi, Motorola, NEC, Nokia, Nortel, NTT DoCoMo, Panasonic, Qualcomm Europe, Samsung, Sharp, Siemens, Texas Instruments, Toshiba) (Revision in R1-051264)

14/10/2005 10:00 Presented by Dr. Erik Dahlman.

Discussion (Question / Comment):

Decision: This TP was agreed.

Cell search

R1-051057 Downlink Synchronization Channel Schemes for E-UTRA (Texas Instruments)

12/10/2005 14:57 Presented by Dr. Tim Schmidl.

Discussion (Question / Comment):

Decision: This document was noted.

R1-051072 TP for Downlink Synchronization Channel Schemes for E-UTRA (ZTE)

12/10/2005 15:08 Presented by

Discussion (Question / Comment):

Decision: This document was noted.

R1-051083 A modification of frame structure for CP length (ZTE)

12/10/2005 15:14 Presented by

Discussion (Question / Comment):

Decision: This document was noted.

R1-051156 Proposal for the downlink synchronisation channel for E-UTRA (Nortel)

12/10/2005 15:22 Presented by

Discussion (Question / Comment):

Decision: This document was noted.

R1-051147 Basic Structure of Control Channel and Synchronization Channel for Scalable Bandwidth in Evolved UTRA Downlink

(NTT DoCoMo, Fujitsu, Mitsubishi Electric Corporation, NEC, Panasonic, SHARP, Toshiba Corporation) (Revision of R1-050592)

12/10/2005 16:12 Presented by Dr. Kenichi Higuchi.

Discussion (Question / Comment): Question was raised on the period of control channel from IPW. NTT DoCoMo commented one or a few in 10 msec. LGE commented that UE with 1.25 MHz can only use the band in central. NTT DoCoMo commented that this is for cell search. BS can allocate other band

Decision: This document was noted.

Resource allocation, Scheduling

R1-051041 Downlink chunk bandwidth for frequency selective scheduling (Samsung)

12/10/2005 16:26 Presented by Mr. Eddy Kwon.

Discussion (Question / Comment): Ericsson commented that CQI is another issue.

Decision: This document was noted.

R1-051064 Resource Block bandwidth for OFDMA-based EUTRA downlink in localized mode (Panasonic)

12/10/2005 16:39 Presented by Mr. Christian Wengerter.

Discussion (Question / Comment):

Decision: This document was noted.

R1-051091 On the DL frequency resource block dimensioning (Nokia)

12/10/2005 16:45 Presented by

Discussion (Question / Comment): Question was raised on the resource block for distribute scheme from Samsung. Nokia commented that study is needed for unit for resource block with localized scheme.

Decision: This document was noted.

R1-051095 Frequency bandwidth of resource blocks for DL OFDMA (Siemens) (Revision of R1-050737)

12/10/2005 16:58 Presented by Dr. Hindelang Thomas.

Discussion (Question / Comment):

Decision: This document was noted.

R1-051042 System level performance comparison between frequency scheduled and time-frequency diversity transmission (Samsung)

12/10/2005 16:58 Presented by Mr. Eddy Kwon.

Discussion (Question / Comment):

Decision: This document was noted.

R1-051043 Downlink time-frequency diversity transmission (Samsung)

12/10/2005 17:06 Presented by Mr. Eddy Kwon.

Discussion (Question / Comment): Question was raised on the effect of time diversity. Samsung commented the performance gap between structure 1 and 5 would be small in TU model.

Decision: This document was noted.

R1-051045 CQI report and scheduling procedure (Samsung)

12/10/2005 17:25 Presented by Mr. Eddy Kwon.

Discussion (Question / Comment): Question was raised on CQI for entire bandwidth from Siemens. Samsung commented that CQI for both entire and chunk bandwidth is used to reduce the number of total CQI bit. The number "K" should be decided by Node B. Motorola commented that it is a little premature to decide the CQI transmission method since there are many methods. RAN1 chair agree to Motorola comment.

Decision: This document was noted.

R1-051049 Downlink resource allocation for EUTRA (LG Electronics)

12/10/2005 17:37 Presented by Dr. Joon-Kui Ahn.

Discussion (Question / Comment): Question was raised on the FDM case by Samsung, LGE commented that additional bit for frequency separation is needed in case of FDM.

Decision: This document was noted.

R1-051061 Throughput Evaluations in EUTRA OFDMA Downlink (Texas Instruments)

12/10/2005 17:49 Presented by Dr. Eko Onggosanusi

Discussion (Question / Comment): Comments was raised on performance gap between TI and Samsung from Panasonic. TI commented that the scheduling delay may differ from Samsung's simulation. Samsung commented that the overhead will be large when the CQI interval is 2msec.

Decision: This document was noted.

R1-051090 DL resource allocation considerations (Nokia)

12/10/2005 18:09 Presented by Mr. Jussi Kahtava

Discussion (Question / Comment):

Decision: This document was noted.

R1-051105 Description of OFDMA based downlink for E-UTRA evaluation (Qualcomm Europe)

12/10/2005 18:21 Presented by Dr. Durga Malladi

Discussion (Question / Comment):

Decision: This document was noted

R1-051149 Adaptive Modulation and Channel Coding Rate Control Method for Frequency Domain Scheduling in Evolved UTRA Downlink
(Ericsson, Fujitsu, Mitsubishi Electric Corporation, NEC, NTT DoCoMo, Panasonic, Sharp, Toshiba Corporation) (Revision of R1-050854)

12/10/2005 18:38 Presented by Dr. Kenichi Higuchi.

Discussion (Question / Comment): NTT DoCoMo commented that the performance would be improved when we consider the concatenated gain. Siemens commented that channel dependent coding should not be excluded. Nortel commented that signaling overhead would be increased due to this flexibility.

Decision: This document was noted.

Interference management

R1-051051 Standard aspects of Interference coordination for EUTRA (LG Electronics)

13/10/2005 08:40 Presented by Dr. Joon-Kui Ahn.

Discussion (Question / Comment): Alcatel commented that there are some approaches. One is limitation for spectrum usage, other is the combination of scheduling. LGE commented it is true but it is operator's matter.

Decision: This document was noted.

R1-051059 Inter-Cell Interference Mitigation for EUTRA (Texas Instruments)

10/10/2005 08:58 Presented by Dr. Aris Papasakellariou

Discussion (Question / Comment): Huawei commented that the approach of scheduling in time domain is good. But there is no agreement on cell synchronous system.

Decision: This document was noted.

R1-051085 Resource allocation for interference mitigation with symbol repetition in E-UTRA downlink (ETRI)

10/10/2005 09:16 Presented by

Discussion (Question / Comment): Question was raised on the channel estimation method from Nokia. ETRI commented that ideal channel estimation is used.

Decision: This document was noted.

R1-051123 Further description of dynamic FFR for OFDM based E-UTRA downlink (Qualcomm Europe)

12/10/2005 09:26 Presented by Dr. Durga Malladi.

Discussion (Question / Comment): Question was raised on dynamic FFR from Samsung. Qualcomm commented that feedback signaling is needed.

Decision: This document was noted.

R1-051130 TP on interference management for OFDM based E-UTRA downlink evaluation (Qualcomm Europe)

12/10/2005 09:26 Presented by Dr. Durga Malladi.

Discussion (Question / Comment): Some companies commented that it is unclear this method is better than others

Decision: This document was noted

R1-051137 Further results on inter-cell interference mitigation based on IDMA (RITT)

12/10/2005 09:50 Presented by Dr. Shen Jia.

Discussion (Question / Comment):

Decision: This document was noted

Multiplex, Channel structure

R1-051071 TP for E-UTRA Channelization Scheme based on RS series (ZTE)

12/10/2005 09:59 Presented by ZTE

Discussion (Question / Comment):

Decision: This document was noted.

R1-051086 Considerations on transmit diversity and multiplexing for DL control channels (ETRI)

12/10/2005 10:12 Presented by

Discussion (Question / Comment):

Decision: This document was noted.

R1-051106 Considerations on control structure OFDMA based E-UTRA downlink evaluation
(Qualcomm Europe)

13/10/2005 10:18 Presented by Dr. Durga Malladi

Discussion (Question / Comment): Samsung commented that the time diversity gain is obtained even in the short TTI. There is a possibility to use asynchronous scheme. Qualcomm commented that the diversity gain is obtained for best effort traffic. Asynchronous scheme should be considered later

Decision: This document was noted

R1-051159 Proposal for DL sub-channelisation for E-UTRA
(Nortel)

13/10/2005 11:00 Presented by

Discussion (Question / Comment): Question was raised on the resource allocation unit from Nortel. Nortel commented that the unit is not sub-carrier but sub-carrier block even for the diversity case. Question was raised on the Diversity/Hybrid scheme. Nortel commented it depended on UE speed.

Decision: This document was noted.

R1-051192 EUTRA downlink multiplexing of localized and distributed channels
(Huawei)

13/10/2005 11:12 Presented by Mr. Gaoke Du.

Discussion (Question / Comment):

Decision: This document was noted.

R1-051220 Downlink Multiplexing for EUTRA
(Samsung)

13/10/2005 11:26 Presented by Dr. Eddy Kwon.

Discussion (Question / Comment): Question was raised on the impact of LRCH from Nokia. Samsung commented that it depends on control channel structure. Samsung commented that diversity transmission is useful for VoIP. Remaining resource is used for high-speed transmission. Semi-static and dynamic approach can be considered.

Decision: This document was noted.

R1-051096 Idle period and frame designs for half duplex communications
(Mitsubishi Electric, IPWireless)

13/10/2005 11:42 Presented by

Discussion (Question / Comment):

Decision: This document was noted.

R1-051178 Frame structure design and analyze of OFDM TDD for LTE
(CATT, RITT, TD-Tech, ZTE, Huawei)

13/10/2005 12:06 Presented by Mr. Hai Tang

Discussion (Question / Comment): Question was raised on the compatibility for legacy carrier. Huawei commented that interference coordination method is needed for multiple switching points. IPWireless commented that no comparison of the proposed frame structure had been made against the existing one in TR25.814, and that it seemed that the proposed structure carried an efficiency loss due to guard periods, UpPTS and DwPTS.

Decision: This document was noted

R1-051180 Idle period shortening for half duplex communications in large cells
(Mitsubishi Electric)

13/10/2005 11:55 Presented by

Discussion (Question / Comment): Mitsubishi commented that the design for TDD is based on that for FDD to keep high commonality.

Decision: This document was noted.

R1-051241 Numerology and Frame Structure of EUTRA TDD based on OFDMA and text proposal for TR 25.814
(CATT, RITT, ZTE, Huawei, TD-Tech)

13/10/2005 12:23 Presented by Mr. Hai Tang.

Discussion (Question / Comment):

Decision: This document was noted.

R1-051036 EUTRA TDD Frame Structure and TP
(Motorola)

13/10/2005 12:35 Presented by Mr. Robert Love

Discussion (Question / Comment): CATT commented that this structure does not meet the latency requirement in TR25.913. Motorola commented it can be acceptable. IPW commented that the scheme should be consider that co-existence on current system.

Decision: This document was noted. Offline discussion to arrive at a text proposal addressing the TDD issue(s) and potential solutions (if already agreeable) to take place, revised TP in R1-051276.

R1-051276 Text proposal for E-UTRA TDD frame structure (CATT, Ericsson, Huawei, IPWireless, Mitsubishi Electric, Motorola, RITT, Samsung, TD-Tech, ZTE)

14/10/2005 10:10 Presented by Mr. Hai Tang.

Discussion (Question / Comment):

Decision: This TP was agreed.

R1-051284 A flexible E-UTRA frame structure for compatibility with UTRA TDD modes (IPWireless, Mitsubishi Electric)

Decision: This document was noted without presentation.

Spectrum shaping

R1-051203 Windowing and spectral containment for OFDM downlink (Lucent Technologies, France Telecom)

13/10/2005 14:03 Presented by Dr. Rainer Bachl.

Discussion (Question / Comment): Question was raised on reduction of out-band emission. Lucent commented that for the 1.25 MHz bandwidth, the number of used subcarriers should be about 70 corresponding to a 5-10% reduction of the number of used subcarriers with respect to the current assumption.

Decision: This document was noted.

R1-051209 OFDM/OQAM technical overview (France Telecom, Orange, Alcatel)

13/10/2005 14:16 Presented by Mr. Jean-philippe Javaudin .

Discussion (Question / Comment): Ericsson commented that there are two unclear points. One is channel estimation, second is MIMO operation. France telecom commented that twice more real symbol is needed. One pilot or two pilots is used to cancel the interference and keep orthogonality. MIMO can be applied for SDM.

Decision: This document was noted.

R1-051210 Text proposal for OFDM/OQAM description (France Telecom, Orange, Alcatel)

13/10/2005 14:16 Presented by Mr. Jean-philippe Javaudin

Discussion (Question / Comment):

Decision: This TP was agreed.

R1-051211 Text proposal for OFDM/OQAM parameters set (France Telecom, Orange, Alcatel)

Discussion (Question / Comment):

Decision: This TP was agreed.

Broadcast, MBMS

R1-051050 Macro diversity for EUTRA MBMS (LG Electronics)

13/10/2005 14:30 Presented by Dr. Joon-Kui Ahn.

Discussion (Question / Comment): Question was raised on the pilot pattern from Siemens and Qualcomm. LGE commented that alignment for Uni-cast and Multi-cast is considered. Samsung commented same pilot pattern should be used in synchronous network. Question was raised on the timing gap between Node B in selection combining.

Decision: This document was noted.

R1-051084 Additional macro diversity in MBMS (ETRI)

13/10/2005 14:50 Presented by Dr. Jae Kyun Kwon

Discussion (Question / Comment):

Decision: This document was noted.

R1-051103 Channel structure for E-UTRA MBMS evaluation (Qualcomm Europe)

13/10/2005 14:55 Presented by Dr. Durga Malladi

Discussion (Question / Comment): Comment was raised on the synchronous HARQ in case of time-multiplex approach.

Decision: This document was noted

R1-051122 Description, Simulations and TP on Hierarchical Modulation Technique for E-UTRA MBMS Evaluation (Qualcomm Europe)

13/10/2005 15:15 Presented by Dr. Durga Malladi

Discussion (Question / Comment):

Decision: Continue the discussion, revise text proposal at the next meeting.

Not Treated

- R1-051097** **LTE: Draft text proposal for TR 25.814 on idle period insertion for half duplex operation** **(Mitsubishi Electric, IPWireless)**
- R1-051196** **Control Channel Mapping for MIMO Antennas in Evolved UTRA OFDMA Downlink** **(Sharp)**
- R1-051261** **Enhancement of Distributed Mode for Maximizing Frequency Diversity** **(KDDI)**
- R1-051273** **TP-A modification of frame structure for CP length** **(ZTE)**

Not Available

- R1-051217** **Multiplexing of multicast/broadcast and unicast services** **(China Mobile. Huawei)**

Withdrawn

- R1-051052** **Link Adaptation for Physical Layer in the EUTRA Downlink** **(ZTE)**
- R1-051044** **One-bit control information transmission** **(Samsung)**
- R1-051140** **Flexible TDD frame structure** **(Samsung)**
- R1-051146** **Intra-Node B Orthogonal Pilot Channel for MIMO in Evolved UTRA Downlink** **(NTT DoCoMo)**
- R1-051148** **Further Investigation on Intra-Node B Macro Diversity Using Simultaneous Transmission with Soft-Combining in Evolved UTRA Downlink** **(NTT DoCoMo)**
- R1-051169** **Numerology and Frame Structure of EUTRA TDD based on OFDMA and text proposal for TR 25.814** **(CATT, RITT, ZTE, Huawei, TD-Tech)**

8.3.1 **Results from email reflector discussions**

No input

8.4 **Further aspects of MC-WCDMA, MC-TDSCDMA**

MC-WCDMA

- R1-051107** **Description and complexity aspects of DF-FDE receiver for WCDMA based downlink E-UTRA evaluation** **(Qualcomm Europe)**

13/10/2005 16:35 Presented by

Discussion (Question / Comment):

Decision: This document was noted.

- R1-051108** **Further description of WCDMA based E-UTRA (low chip rate)** **(Qualcomm Europe)**

13/10/2005 16:50 Presented by

Discussion (Question / Comment):

Decision: Propose to TP for inclusion to next RAN1#43.

- R1-051109** **Further description of WCDMA based E-UTRA** **(Qualcomm Europe)**

13/10/2005 16:40 Presented by

Discussion (Question / Comment): Question was raised on the control channel structure (ACK/NACK) from Ericsson. Qualcomm commented that there is no change proposal from the Rel.6

Decision: Propose to TP for inclusion to next RAN1#43.

- R1-051111** **TP on MC-WCDMA operation in unpaired spectrum** **(Qualcomm Europe)**

13/10/2005 16:55 Presented by Mr. Serge Willenegger

Discussion (Question / Comment):

Decision: This document was revised in R1-051282.

R1-051282 TP on MC-WCDMA operation in unpaired spectrum (Qualcomm Europe)

14/10/2005 10:17 Presented by Mr. Serge Willenegger

Discussion (Question / Comment):

Decision: This TP was agreed

MC-TDSDMA

R1-051171 Further Considerations of MC TD-SCDMA (CATT, ZTE)

13/10/2005 17:12 Presented by Mr. Hai Tang.

Discussion (Question / Comment): IPWireless commented that the system effects of restricting use to a single user per timeslot had not been investigated and that if this were the case, orthogonal codes were not necessary (TDMA with repetition codes could instead be used). IPWireless also commented that the proposal of having multiple UL/DL switching points per frame may cause coexistence issues with legacy LCR TDD carriers and that the text proposal had omitted to mention this fact.

Decision: This TP was agreed.

R1-051172 Simulcast for MC TD-SCDMA (CATT, ZTE)

13/10/2005 17:28 Presented by Mr. Hai Tang.

Discussion (Question / Comment):

Decision: This document was noted.

R1-051177 Downlink system level evaluation results for MC TD-SCDMA (CATT)

13/10/2005 17:35 Presented by Mr. Shiqiang Suo

Discussion (Question / Comment): Question was raised on the OTA throughput in Fig.1 from IPW. CATT commented that the interference increase as the number of users increases.

Decision: This document was noted.

8.4.1 Results from email reflector discussions

No input

8.5 System evaluation results for the concepts

R1-051110 System evaluation of MIMO for OFDMA based E-UTRA downlink (Qualcomm Europe)

13/10/2005 18:50 Presented by

Discussion (Question / Comment):

Decision: This document was noted.

R1-051112 Link comparison of WCDMA and OFDMA based E-UTRA downlink (Qualcomm Europe)

13/10/2005 18:54 Presented by Dr. Durga Malladi.

Discussion (Question / Comment):

Decision: This document was noted.

R1-051117 Further description of advanced receivers modelling for WCDMA based downlink E-UTRA evaluation (Qualcomm Europe)

13/10/2005 19:01 Presented by

Discussion (Question / Comment): Question was raised on the decision feedback error. Qualcomm commented decision feedback error is not considered. It is clarify in section 3.1 $\alpha (=0.1)$ is decided from the link level simulation results.

Decision: This document was noted.

R1-051113 System evaluation of Rel-6 type I, WCDMA and OFDMA based E-UTRA downlink (non MIMO) (Qualcomm Europe)

13/10/2005 19:01 Presented by

Discussion (Question / Comment):

Decision: This document was noted.

R1-051114 Downlink HSDPA System Capacity – Rx diversity vs. MIMO
(Qualcomm Europe)

13/10/2005 19:12 Presented by

Discussion (Question / Comment): Question was raised on the performance gap between Ra-051110 from Motorola. Qualcomm commented that it may from PURC or single code.

Decision: This document was noted.

R1-051115 System level comparison of Rel-6, MC-WCDMA (IC) and OFDMA based uplink for E-UTRA - Full buffer
(Qualcomm Europe)

13/10/2005 19:29 Presented by

Discussion (Question / Comment): Question was raised on the capacity with 2 antenna and effectiveness on VoIP traffic. Qualcomm commented the capacity becomes double with 2 antennas than that with no interference canceller. No fundamentally difference for VoIP service. 10 users in one TTI are assumed. Samsung shows that orthogonal system never outperforms the non-orthogonal system. Qualcomm commented non-orthogonal is also better. Capacity with non-orthogonal is high capacity.

Decision: This document was noted.

R1-051116 System evaluation of E-UTRA MBMS
(Qualcomm Europe)

11/10/2005 19:51 Presented by Dr. Durga Malladi.

Discussion (Question / Comment):

Decision: This document was noted.

R1-051100 Description and link simulations for OFDMA based E-UTRA uplink evaluation
(Qualcomm Europe)

11/10/2005 19:50 Presented by Dr. Durga Malladi

Discussion (Question / Comment):

Decision: This document was noted.

R1-051158 DL System level performance evaluation for E-UTRA
(Nortel)

11/10/2005 20:00 Presented by

Discussion (Question / Comment):

Decision: This document was noted.

R1-051160 UL System level performance evaluation for OFDMA
(Nortel)

11/10/2005 20:15 Presented by

Discussion (Question / Comment):

Decision: This document was noted.

R1-051176 Downlink system level evaluation results for OFDMA TDD with inter-cell interference mitigation
(CATT)

11/10/2005 20:24 Presented by Mr. Shiqiang Suo.

Discussion (Question / Comment):

Decision: This document was noted.

R1-051239 Simulation results for DL EUTRA
(Motorola)

11/10/2005 20:24 Presented by

Discussion (Question / Comment): Qualcomm commented that real channel estimation should be considered and included in TR. Motorola commented that best performance should be investigated.

Decision: This document was noted.

8.5.1 Results from email reflector discussions

No Input

8.6 MIMO

The LTE MIMO session was discussed in parallel to the main session. The report from LTE MIMO session was provided by MIMO chair in R1-051274.

R1-051274 MIMO report (LTE part) (MIMO AH Chair)
Decision: The LTE part was endorsed by the main session. It was clarified that the deadline for new LTE MIMO proposals (for the SI) is RAN1#43.

R1-051272 Text proposal for LTE MIMO Aspects (MIMO Ad-Hoc)
Decision: This TP was agreed with modifications in R1-051283.

R1-051283 Text proposal for LTE MIMO Aspects (MIMO Ad-Hoc)

Uplink specific MIMO contributions

R1-051118 Description of simultaneous multi-user transmission scheme for xFDMA based E-UTRA uplink evaluation (Qualcomm Europe)

11/10/2005 9:00 Presented by Dr. Durga Malladi

Discussion (Question / Comment):

Decision: This document was noted

R1-051162 UL Virtual MIMO Transmission for E-UTRA (Nortel)

11/10/2005 9:09 Presented by

Discussion (Question / Comment):

Decision: This document was noted

R1-051163 Text proposal for virtual MIMO for UL OFDMA (Nortel)

11/10/2005 9:18 Presented by Ms. Evelyne Le Strat

Discussion (Question / Comment):

Decision: This document was revised in R1-051257.

R1-051164 Text proposal for virtual MIMO for UL SC-FDMA (Nortel)

Discussion (Question / Comment):

Decision: This document was revised in R1-051257.

R1-051257 Text proposal for virtual MIMO for UL OFDMA (Nortel)

14/10/2005 10:19 Presented by Ms. Evelyne Le Strat

Discussion (Question / Comment):

Decision: This TP was agreed

Downlink specific MIMO contributions

R1-051213 Considerations on E-UTRA MIMO (Nokia)

Discussion (Question / Comment):

Decision: This document was noted.

Conclusion:

Nokia to prepare the text proposal in R1-051268 for Wednesday morning based on the following agreed text proposal for RAN1 LTE TR on “Aspects to consider for LTE MIMO discussions”

- Micro-cellular, hot-spot environment, and macro-cellular environments can be considered in performance evaluation.
- Not increase number of operation modes unnecessarily. Impact on receiver architecture should be also considered.
- In case multiple MIMO operations modes are defined, MIMO operation modes is UE capability.
- Realistic assumptions have to be taken into account when comparing different MIMO concepts, such as feedback errors and delays, needed multi-antenna pilot overhead, and its effect on performance, complexity and signaling requirements, etc. The resulting pilot and signaling overheads in both uplink and downlink have to be justified by the shown improvements.

Note:

- Needed parameters to cover micro-cellular/hot-spot environment for LTE to be discussed.

R1-051268 TP for LTE MIMO aspects (MIMO Ad Hoc)

Discussion (Question / Comment):

Decision: This document was revised to remove “hot spot” in the first bullet point and the note at the end of the TP in R1-051272.

(MIMO Ad Hoc)

Decision: This TP was agreed.

(Texas Instruments)

Decision: This document was noted.

(Panasonic)

Decision: This document was noted.

(Huawei)

Decision: This document was noted.

(Qualcomm Europe)

Decision: This document was revised in R1-051267 (to be sent by Qualcomm to RAN1 email reflector to serve as a starting point for further discussion).

(Qualcomm Europe)

NEC, Panasonic, SHARP, Toshiba Corporation) (Revision of R1-050856)

Decision: This document was noted.

(CATT)

Decision: This document was noted.

(Institute for Infocomm Research)

Decision: This document was noted.

(Motorola)

Decision: This document was noted.

(Samsung)

Decision: This document was noted.

(Samsung)

Decision: This document was noted.

(RITT, SHRCWC)

Decision: This document was noted.

Use RAN1 reflector using subject e.g. AH... to identify which proposals are explicitly available for LTE MIMO aiming at high level description of each MIMO proposals for R1#43 meeting.

R1-051186	Multiple antenna considerations for E-UTRA	(Ericsson)
R1-051218	Inter-sector diversity for downlink	(China Mobile, Huawei)

R1-051053 Link Simulation of MIMO Scheme for TD-SCDMA (ZTE)

No input

The following documents were not treated due to the lack of time.

- | | | |
|------------------|--|--|
| R1-051055 | Adaptive Modulation and Coding for Evolved UTRA Downlink | (Toshiba) |
| R1-051070 | Comparison of structured vector LDPC Codes and 3GPP Turbo codes | (ZTE, CATT, RITT, Huawei) (Resubmission of R1-050840) |
| R1-051077 | Efficient Method for EUTRAN Synchronization | (Siemens, NTT DoCoMo) |
| R1-051082 | Lower rate extension of channel coding to the rate $<1/3$ | (Fujitsu) (Resubmission of R1-050697) |
| R1-051167 | Rate-Compatible LDPC codes with low complexity encoder & decoder | (Mitsubishi Electric) |
| R1-051212 | Enhancement of Rel. 6 Turbo Code | (France Telecom, GET) |
| R1-051265 | Enhancement of Rel. 6 Turbo Code | (France Telecom, GET) |
| | (Revision of R1-051212) | |

No input

9. MIMO in UTRA (Rel'7 work item)

The MIMO Rel-7 session was discussed in parallel to the main session. The report from LTE MIMO session was provided by MIMO chair in R1-051274.

- R1-051274 MIMO report (MIMO Rel'7 part) (MIMO AH Chair)**
Decision: Rel'7 MIMO part was endorsed.
- R1-051204 MIMO TR25.876 Version 1.7.1 (Editor, Lucent Technologies)**
Discussion (Question / Comment):
Decision: This document was revised in R1-051262 to fix a figure problem.
- R1-051262 MIMO TR25.876 Version 1.7.2 (Editor, Lucent Technologies)**
Discussion (Question / Comment):
Decision: This document was endorsed as v1.8.0 in R1-051269.
- R1-051269 MIMO TR25.876 Version 1.8.0 (Editor, Lucent Technologies)**

Link level simulation

- R1-051119 Link level results for MIMO link level calibration (Qualcomm Europe)**
Discussion (Question / Comment):
Decision: This document was noted.
- R1-051152 MIMO reference link level simulation results for calibration purposes (Nokia)**
Discussion (Question / Comment):
Decision: This document was noted.
- R1-051198 Link level simulation results for ASTTD (Huawei)**
Discussion (Question / Comment):
Decision: This document was noted.
- R1-051214 Further Link Level Simulation Results on Spatial Temporal Turbo Channel Coding (STTCC) for MIMO (Philips)**
Discussion (Question / Comment):
Decision: This document was noted.
- R1-051216 Link level performance of PU²RC (MU-MIMO) (Samsung)**
Discussion (Question / Comment):
Decision: This document was noted.
- R1-051154 Link level simulation results for DSTTD-SGRC (Mitsubishi Electric)**
Discussion (Question / Comment):
Decision: This document was noted.
- R1-051179 MIMO Link Level Assumptions for 1.28Mcps TDD (CATT)**
Discussion (Question / Comment):
Decision: This document was revised not to include 3.84Mcps TDD specific parameters in R1-051263.
- R1-051263 MIMO Link Level Assumptions for 1.28Mcps TDD (CATT)**
Discussion (Question / Comment):
Decision: This document was agreed.
- R1-051234 Per-Antenna Rate Control for UTRA TDD: Additional Link Level Results (IPWireless)**
Discussion (Question / Comment):
Decision: This document was noted.

System level simulations

- R1-051121 System level parameters for MIMO evaluation (Qualcomm Europe)**
Discussion (Question / Comment):
Decision: Qualcomm provides the revision in R1-051266 based on the sets of agreements (See R1-051274).
- R1-051266 System level parameters for MIMO evaluation (Qualcomm Europe)**
Decision: This document was revised regarding max C/I and other small things in R1-051275.
- R1-051275 System level parameters for MIMO evaluation (Qualcomm Europe)**
Decision: This document was agreed.
- R1-051235 System Level Simulation Parameters for Evaluating MIMO Performance in UTRA TDD (IPWireless)**
Discussion (Question / Comment):
Decision: This document was revised to be in line with R1-051266 in R1-051271.
- R1-051271 System Level Simulation Parameters for Evaluating MIMO Performance in UTRA TDD (IPWireless)**
Discussion (Question / Comment):
Decision: This document was agreed.
- R1-051188 MIMO system level simulations: further results (Ericsson)**
Discussion (Question / Comment):
Decision: This document was noted.
- R1-051189 MIMO system level simulations: Indoor Scenario results (Ericsson)**
Discussion (Question / Comment):
Decision: This document was noted.

10. Improved Support of IMS Realtime Services using HSDPA/E-DCH

No input

11. Continuous Connectivity for Packet Data Users

R1-051127 Skeleton TR 25.9xx v0.0.1 Continuous Connectivity for Packet Data Users

R1-051278 Skeleton TR 25.9xx v0.0.2 Continuous Connectivity for Packet Data Users
(Revision of R1-051127) (Siemens)

14/10/2005 11:14 Presented by Dr. Joern Krause.

Discussion (Question / Comment):

Decision: This document was agreed (TR number is TR25.903)

Basic concepts (“ingredients”) should be described in separate sections in the TR, text proposals should be prepared accordingly, and can be discussed over the email reflector. Email discussion on text proposals for the concepts (R1-051277 and R1-051129) until October 28. After the email discussion, the result was summarized as the text proposal to TR25.903 in R1-051291. Also R1-051278 was revised as version 0.3.0 in R1-051292.

R1-051291 Text proposal for TR 25.903 for email discussion (Siemens)

Decision: This TP was submitted on the RAN1 reflector as the results of e-mail discussion after the meeting. After submitting this TP, there was further discussion on the text proposal. The discussion was reflected in TR25.903 version 0.3.0 in R1-051292.

R1-051292 TR 25.903 v0.0.3 Continuous Connectivity for Packet Data Users

(Editor: Siemens)

Decision: This document was endorsed as version 0.1.0 in R1-051293 on the RAN1 reflector after the meeting.

R1-051293 TR 25.903 v0.1.0 Continuous Connectivity for Packet Data Users

(Editor: Siemens)

R1-051281 Draft LS for RAN2/3/4 on Continuous Connectivity for Packet Data Users

(Siemens)

Decision: This draft LS was approved in R1-051294 after the meeting when the above text proposal and TR were endorsed on the RAN1 reflector.

R1-051294 LS to RAN2/RAN3/RAN4 on Continuous Connectivity for Packet Data Users

(To: RAN2, RAN3, RAN4)

(RAN WG1)

R1-051125 Framework for enhanced continuous PS connectivity (Qualcomm Europe)

R1-051131 Framework for enhanced continuous PS connectivity (slides)

(Qualcomm Europe)

14/10/2005 11:25 Presented by

Discussion (Question / Comment):

Decision: This document was noted

R1-051202 Usage of MAC-e PDUs for switching between active and idle traffic mode

(Lucent Technologies)

14/10/2005 11:57 Presented by Dr. Rainer Bachl

Discussion (Question / Comment):

Decision: This document was noted

R1-051277 TP for switching between active and idle traffic mode

(Lucent Technologies)

Decision: This document was noted

R1-051128 Text proposal for TR 25.9xx for Concept "SIR_target lowering & CQI off

(Siemens)

14/10/2005 12:18 Presented by Ms. Malgorzata Wimmer

Discussion (Question / Comment):

Decision: This document was noted

R1-051129 Text proposal for TR 25.9xx for Comparing Continuous Connectivity Concepts

(Siemens)

Discussion (Question / Comment):

Decision: This TP was revised in R1-051280.

R1-051280 Text proposal for TR 25.9xx for Comparing Continuous Connectivity Concepts
(Siemens, Philips, Nokia)

Decision: This document is for information and was noted without the presentation.

R1-051219 Text proposal for TR 25.9xx on Power Control Simulation Results for Continuous Connectivity
(Siemens)

R1-051279 Text proposal for TR 25.9xx on Power Control Simulation Results for Continuous Connectivity
(Siemens) (Revision of R1-051219)

14/10/2005 12:55 Presented by Ms. Malgorzata Wimmer

Discussion (Question / Comment):

Decision: This document was noted

R1-051215 Text Proposal on “Reduction of control channel overhead for inactive users”
(Philips)

14/10/2005 13:12 Presented by Mr. Matthew Baker

Discussion (Question / Comment):

Decision: Description part (x.y.1) in this TP was agreed

R1-051205 Text proposal on Uplink DPCCH Gating Concept
(Nokia)

14/10/2005 13:30 Presented by Mr. Kari Renta-aho

Discussion (Question / Comment):

Decision: TP agreed up to before 2nd 4.1.1.3 section

R1-051206 UL DPCCH Gating - Link level gain
(Nokia)

14/10/2005 13:45 Presented by Mr. Kari Renta-aho

Discussion (Question / Comment):

Decision: This document was noted

R1-051207 F-DPCH power control simulation results
(Nokia)

14/10/2005 13:55 Presented by Mr. Kari Renta-aho

Discussion (Question / Comment):

Decision: This document was noted

Withdrawn

R1-051063 Optimized Control Channel for EDCH
(STMicroelectronics)

Decision: This document was withdrawn because there was no presenter.

Not Available

R1-051208 UL DPCCH Gating - UL Power control error
(Nokia)

14. Closing of the meeting: Friday 4.00 PM

14/10/2005 14: 30. RAN1 Chairman, Mr. Dirk Gerstenberger expressed his appreciation to the delegates and the host, Qualcomm.

Annex A: List of participants at RAN1 #42bis

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Annex B: TSG RAN WG1 meetings in 2005

TITLE	TYPE	DATES	LOCATION	CTRY
3GPPRAN1#40	WG	14 - 18 Feb 2005	Scottsdale	USA
3GPPRAN1#40bis	WG	04 - 08 April 2005	Beijing	China
3GPPRAN1#41	WG	09 - 13 May 2005	Athens	GR
3GPPRAN1 Ad Hoc LTE	AH	20-21 June 2005	Sophia Antipolis	FR
3GPPRAN1#42	WG	29 Aug -02 Sept 2005	London	UK
3GPPRAN1#42bis	WG	10 -14 Oct 2005	San Diego	US
3GPPRAN1#43	WG	07 - 11 Nov 2005	Seoul	Korea

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#42bis

Spec	CR	R	Cat	Rel	R1 Tdoc	Title	Work Item
25.211	0224	-	F	Rel-6	R1-051078	Clean up due to removal of NTPC=1	TEI
25.211	0225	1	F	Rel-6	R1-051244	Combination of DPCCH and E-DCH	EDCH-Phys
25.212	0228	-	F	Rel-6	R1-051030	PLmax alignment over all UE categories	EDCH-Phys
25.212	0229	-	F	Rel-6	R1-051079	Correction of SF when a CCTrCH is mapped onto four E-DPDCHs	EDCH-Phys

Annex D: List of Outgoing LSs

NUMBER	TITLE	WI	To	Cc
R1-051255	LS on UTRA LTE UL macrodiversity performance results	Evolved UTRA and UTRAN	RAN2, RAN3	TSG RAN
R1-051287	Reply LS on DCH compressed mode and HARQ interaction for the 10msec TTI	EDCH-Phys	RAN2	-
R1-051288	LS on Puncturing limit for Conversational / speech 12.2 kbps + Interactive 0 kbps	TEI	RAN5	RAN2
R1-051294	LS to RAN2/RAN3/RAN4 on Continuous Connectivity for Packet Data Users		RAN2, RAN3, RAN4	-

Annex E: List of Tdocs at RAN1 #42bis

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051020	Draft Agenda	RAN1 Chairman	2			Approved
R1-051021	Draft report from RAN1#42	RAN1 Secretary	3			Approved in R1-051290
R1-051022	LS on VoIMS RAB (To: RAN1)	WG RAN2, Samsung	4	=R2-052312		Noted. Provided draft reply LS for RAN1#43
R1-051023	LS on verification of parameters for proposed HSDPA + AMR_WB RAB in TS 34.108 (To:RAN5, Cc:RAN1)	WG RAN2, Nokia	4	=R2-052324		Noted
R1-051024	Response to LS (R5-051582) on reference radio bearer configurations for E-DCH testing (To:RAN5, Cc:RAN1)	WG RAN2, Ericsson	4	=R2-052325		Noted
R1-051025	LS on Radio link failure criteria on Fractional DPCH(To:RAN3, Cc:RAN1, RAN4)	WG RAN2, Nortel	4	= R2-052327		Noted
R1-051026	Reply LS to RAN1 on AMR_WB CS + DCH PS radio bearer configurations for TR 25.993 (To: RAN1, Cc:RAN5)	WG RAN2, Vodafone	4	= R2-052331		Noted
R1-051027	Non-serving E-DCH to serving E-DCH power ratio (To: RAN2, Cc:RAN1, RAN4)	WG RAN3, Samsung	4	=R3-051009		Noted. If needed, a CR for 25.215 can be provided for RAN1#43.
R1-051028	LS on RAB and the error-delay-profile for the performance characterization of VoIMS over HSDPA/EUL (To:RAN1, RAN2, RAN5)	WG SA4, Lucent	4	=S4-050665		Noted
R1-051029	TR25.814 v.0.2.1 Physical Layer Aspects for Evolved UTRA	Editor (NTT DoCoMo)	8			Endorsed in v0.3.0 in R1-051252
R1-051030	25.212CR0228(Rel-6, F) "PLmax alignment over all UE categories"	Nokia	5.4			Agreed
R1-051031	EUTRA Uplink Cell Edge Enhancements and Macrodiversity	Motorola	8.1			Noted
R1-051032	Tone Reservation for OFDMA PAPR Reduction	Motorola	8.2			Noted
R1-051033	Further Topics on Uplink DFT-SOFDM for EUTRA	Motorola	8.2			Noted
R1-051034	Further Topics on Downlink Pilot Design for EUTRA	Motorola	8.3			Noted

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NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051035	Text Proposal for Downlink Pilot Design for EUTRA	Motorola	8.3			Noted
R1-051036	EUTRA TDD Frame Structure and TP	Motorola	8.7	R1-051276		Revised in R1-051276
R1-051037	Performance of uplink macro diversity in Evolved UTRA	Samsung	8.1			Noted
R1-051038	Spectrum shaping filtering in DFT-spread OFDM	Samsung	8.2			Noted
R1-051039	Data and Control Multiplexing in DFT-S-OFDM	Samsung	8.2			Noted
R1-051040	Downlink pilot structure	Samsung	8.3			Noted
R1-051041	Downlink chunk bandwidth for frequency selective scheduling	Samsung	8.3			Noted
R1-051042	System level performance comparison between frequency scheduled and time-frequency diversity transmission	Samsung	8.3			Noted
R1-051043	Downlink time-frequency diversity transmission	Samsung	8.3			Noted
R1-051044	One bit control information transmission	Samsung	8.3			Withdrawn
R1-051045	CQI report and scheduling procedure	Samsung	8.3			Noted
R1-051046	Further Details on Adaptive Cyclic Delay Diversity Scheme	Samsung	8.6			Noted
R1-051047	System Performance of Adaptive Cyclic Delay Diversity (ACDD) Scheme	Samsung	8.6			Noted
R1-051048	EUTRA uplink performances with real channel estimation	LG Electronics	8.2			Noted
R1-051049	Downlink resource allocation for EUTRA	LG Electronics	8.3			Noted
R1-051050	Macro diversity for EUTRA MBMS	LG Electronics	8.3			Noted
R1-051051	Standard aspects of Interference coordination for EUTRA	LG Electronics	8.3			Noted
R1-051052	Link Adaptation for Physical Layer in the EUTRA Downlink	ZTE	8.3			Withdrawn
R1-051053	Link Simulation of MIMO Scheme for TD-SCDMA	ZTE	8.6			Withdrawn
R1-051054	Downlink Pilot Structure for Evolved UTRA	Toshiba	8.3			Noted
R1-051055	Adaptive Modulation and Coding for Evolved UTRA Downlink	Toshiba	8.7			Not Treated

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NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051056	Throughput comparison of single user and multi user MIMO for Downlink OFDMA E-UTRA	Texas Instruments	8.6			Noted
R1-051057	Downlink Synchronization Channel Schemes for E-UTRA	Texas Instruments	8.3			Noted
R1-051058	RACH Preamble Design	Texas Instruments	8.2			Noted
R1-051059	Inter-Cell Interference Mitigation for EUTRA	Texas Instruments	8.3			Noted
R1-051060	Performance and Implementation Aspects for Scattered and TDM Pilot in EUTRA OFDMA Downlink	Texas Instruments	8.3			Noted
R1-051061	Throughput Evaluations in EUTRA OFDMA Downlink	Texas Instruments	8.5			Noted
R1-051062	On Uplink Pilot in EUTRA SC-OFDMA	Texas Instruments	8.2			Noted
R1-051063	Optimized Control Channel for EDCH	STMicroelectronics	44			Withdrawn
R1-051064	Resource Block bandwidth for OFDMA-based EUTRA downlink in localized mode	Panasonic	8.3			Noted
R1-051065	Non-Pilot Reference Symbols in OFDM Downlink	Panasonic	8.3			Noted.
R1-051066	SINR improvement of Data symbols by combining with CP in SC-FDMA with Frequency Domain Processing	Panasonic	8.2			Noted. Provided more analysis (BLER), revisit at RAN1#43
R1-051067	Introduction of subgroup in MIMO channel for localized mode	Panasonic	8.6			Noted
R1-051068	Pilot patterns in OFDM LTE uplink	ZTE	8.2	=R1-050838		Noted
R1-051069	Pilot patterns in OFDM LTE downlink	ZTE	8.3	=R1-050839		Noted
R1-051070	Comparison of structured vector LDPC Codes and 3GPP Turbo codes	ZTE, CATT, RITT, Huawei	8.7	=R1-050840		Not Treated
R1-051071	TP for E-UTRA Channelization Scheme based on RS series	ZTE	8.3			Noted
R1-051072	TP for Downlink Synchronization Channel Schemes for E-UTRA	ZTE	8.3			Noted
R1-051073	Performance Comparison of Distributed and Localised FDMA with Frequency Hopping in EUTRA Uplink	NEC Group	8.2			Noted
R1-051074	Common Pilot Channel Mapping for EUTRA Downlink	NEC Group	8.3			Noted

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NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051075	Summary from TSG RAN#29 meeting	RAN1 Chairman	3			Noted
R1-051076	UL Macro-Diversity - System Level Results	Siemens	8.1			Noted
R1-051077	Efficient Method for EUTRAN Synchronization	Siemens, NTT DoCoMo	8.7	=R1-050740		Not Treated
R1-051078	25.211CR0224 (Rel-6, F) "Clean up due to removal of NTPC=1"	Ericsson	5.4			Agreed
R1-051079	25.212CR0229 (Rel-6, F) "Correction of SF when a CCTrCH is mapped onto four E-DPDCHs"	Ericsson	5.4			Agreed
R1-051080	Puncturing limit for Conversational / speech 12.2 kbps + Interactive 0 kbps	Ericsson	5.5			Noted
R1-051081	Draft LS on Puncturing limit for Conversational / speech 12.2 kbps + Interactive 0 kbps	Ericsson	5.5			Agreed in R1-051288
R1-051082	Lower rate extension of channel coding to the rate <1/3	Fujitsu	8.7	=R1-050697		Not Treated
R1-051083	A modification of frame structure for CP length	ZTE	8.3			Noted
R1-051084	Additional macro diversity in MBMS	ETRI	8.3			Noted
R1-051085	Resource allocation for interference mitigation with symbol repetition in E-UTRA downlink	ETRI	8.3			Noted
R1-051086	Considerations on transmit diversity and multiplexing for DL control channels	ETRI	8.3			Noted
R1-051087	UL macrodiversity	Nokia	8.1			Noted
R1-051088	Coverage comparison between UL OFDMA and SC-FDMA	Nokia	8.2			Noted
R1-051089	DL pilot structure and synchronization aspects	Nokia	8.3	R1-051242		Revised in R1-051242
R1-051090	DL resource allocation considerations	Nokia	8.3			Noted
R1-051091	On the DL frequency resource block dimensioning	Nokia	8.3			Noted
R1-051092	Improved SC-FDMA PAPR reduction by non root-raised cosine spectrum-shaping functions	Huawei	8.2			Noted
R1-051093	Performances of FH pilot patterns in multi-cell environment	Huawei	8.3.1			Noted

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R1-051094	Initial Performance Evaluation of Multi-user MIMO Scheme for E-UTRA Downlink	Huawei	8.6			Noted
R1-051095	Frequency bandwidth of resource blocks for DL OFDMA	Siemens	8.3			Noted
R1-051096	Idle period and frame designs for half duplex communications	Mitsubishi Electric, IPWireless	8.3			Noted
R1-051097	LTE: Draft text proposal for TR 25.814 on idle period insertion for half duplex operation	Mitsubishi Electric, IPWireless	8.3			Not Treated
R1-051098	Evaluation of MDC gains for the WCDMA based E-UTRA proposal	Qualcomm Europe	8.1			Noted
R1-051099	Considerations on OFDMA and SC-FDMA based uplink for E-UTRA evaluation (link aspects)	Qualcomm Europe	8.2			Noted
R1-051100	Description and link simulations for OFDMA based E-UTRA uplink evaluation	Qualcomm Europe	8.2			Noted
R1-051101	Description and link simulations for SC-FDMA based E-UTRA uplink evaluation	Qualcomm Europe	8.2			Noted
R1-051102	Considerations on multiplexing of control and user data for xFDMA based E-UTRA uplink evaluation	Qualcomm Europe	8.2			Noted
R1-051103	Channel structure for E-UTRA MBMS evaluation	Qualcomm Europe	8.3			Noted
R1-051104	Considerations on pilot structure for OFDMA based E-UTRA downlink evaluation	Qualcomm Europe	8.3			Noted
R1-051105	Description of OFDMA based downlink for E-UTRA evaluation	Qualcomm Europe	8.3			Noted
R1-051106	Considerations on control structure OFDMA based E-UTRA downlink evaluation	Qualcomm Europe	8.3			Noted
R1-051107	Description and complexity aspects of DF-FDE receiver for WCDMA based downlink E-UTRA evaluation	Qualcomm Europe	8.4			Noted
R1-051108	Further description of WCDMA based E-UTRA (low chip rate)	Qualcomm Europe	8.4			Noted. Prepare TP for inclusion of the text for RAN1#43
R1-051109	Further description of WCDMA based E-UTRA	Qualcomm Europe	8.4			Noted. Prepare TP for inclusion of the text for RAN1#43

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R1-051568

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051110	System evaluation of MIMO for OFDMA based E-UTRA downlink	Qualcomm Europe	8.5			Noted
R1-051111	TP on MC-WCDMA operation in unpaired spectrum	Qualcomm Europe	8.4	R1-051282		Revised in R1-051282
R1-051112	Link comparison of WCDMA and OFDMA based E-UTRA downlink	Qualcomm Europe	8.5			Noted
R1-051113	System evaluation of Rel-6 type I, WCDMA and OFDMA based E-UTRA downlink (non MIMO)	Qualcomm Europe	8.5			Noted
R1-051114	Downlink HSDPA System Capacity – Rx diversity vs. MIMO	Qualcomm Europe	8.5			Noted
R1-051115	System level comparison of Rel-6, MC-WCDMA (IC) and OFDMA based uplink for E-UTRA - Full buffer	Qualcomm Europe	8.5			Noted
R1-051116	System evaluation of E-UTRA MBMS	Qualcomm Europe	8.5			Noted
R1-051117	Further description of advanced receivers modelling for WCDMA based downlink E-UTRA evaluation	Qualcomm Europe	8.5			Noted
R1-051118	Description of simultaneous multi-user transmission scheme for xFDMA based E-UTRA uplink evaluation	Qualcomm Europe	8.6			Noted
R1-051119	Link level results for MIMO link level calibration	Qualcomm Europe	9			Noted
R1-051120	Considerations on OFDMA and SC-FDMA based uplink for E-UTRA evaluation (PAR aspects)	Qualcomm Europe	8.2			Noted
R1-051121	System level parameters for MIMO evaluation	Qualcomm Europe	9	R1-051266		Revised in R1-051266
R1-051122	Description, Simulations and TP on Hierarchical Modulation Technique for E-UTRA MBMS Evaluation	Qualcomm Europe	8.3			Noted
R1-051123	Further description of dynamic FFR for OFDM based E-UTRA downlink	Qualcomm Europe	8.3			Noted
R1-051124	Qualitative evaluation of MIMO schemes for OFDM based E-UTRA downlink	Qualcomm Europe	8.6	R1-051267		Revised in R1-051267 to be sent by Qualcomm to RAN1 email reflector to serve as a starting point for further discussion

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NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051125	Framework for enhanced continuous PS connectivity	Qualcomm Europe	11			Noted
R1-051126	System Simulation results on Uplink Macro Diversity	Alcatel	8.1			Noted
R1-051127	Skeleton TR 25.9xx v0.0.1 Continuous Connectivity for Packet Data Users	Siemens	11	R1-051278		Revised in R1-051278
R1-051128	Text proposal for TR 25.9xx for Concept "SIR target lowering & CQI off	Siemens	11			Noted
R1-051129	Text proposal for TR 25.9xx for Comparing Continuous Connectivity Concepts	Siemens	11	R1-051280		Revised in R1-051280
R1-051130	TP on interference management for OFDM based E-UTRA downlink evaluation	Qualcomm Europe	8.3			Noted
R1-051131	Framework for enhanced continuous PS connectivity (slides)	Qualcomm Europe	11			Noted
R1-051132	Further considerations and Simulations of Unifying MIMO for Evolved UTRA	RITT, SHRCWC	8.6			Noted
R1-051133	DFT-S-GMC: GMC based SC-FDMA for 3GPP LTE uplink	SHRCWC, RITT	8.2			Noted
R1-051134	On the implementation of DFT-S-GMC	SHRCWC, RITT	8.2			Noted
R1-051135	Performance comparison between DFT-S-GMC and DFT-S-OFDM	SHRCWC, RITT	8.2			Noted
R1-051136	On pilot patterns in the downlink MIMO OFDMA transmissions in E-UTRA	RITT	8.3			Noted
R1-051137	Further results on inter-cell interference mitigation based on IDMA	RITT	8.7			Noted
R1-051138	Consideration on uplink MA scheme of EUTRA TDD	RITT, CATT, ZTE, Intel, Huawei, TD-tech	8.2.1			Noted
R1-051139	Performance results for uplink SC-FDMA vs OFDMA	RITT	8.2			Noted
R1-051140	Flexible TDD frame structure	Samsung	8.3			Withdrawn

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NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051141	Inter-Node B Macro Diversity in Evolved UTRA Uplink – Additional Results	NTT DoCoMo, Fujitsu, Mitsubishi Electric Corporation, NEC, Panasonic, SHARP, Toshiba Corporation	8.1			Noted
R1-051142	Orthogonal Pilot Channel in the Same Node B in Evolved UTRA Uplink	NTT DoCoMo, Fujitsu, Mitsubishi Electric Corporation, NEC, Panasonic, SHARP, Toshiba Corporation	8.2	(R1-050851)		Noted
R1-051143	Multiplexing Method of Shared Control Channel in Uplink Single-Carrier FDMA Radio Access	NTT DoCoMo, Fujitsu, Mitsubishi Electric Corporation, NEC, Panasonic, SHARP, Toshiba Corporation	8.2	(R1-050591)		Revised TP in R1-051258.
R1-051144	Localized and Distributed FDMA Application for Single-Carrier FDMA Radio Access in Evolved UTRA Uplink	NTT DoCoMo, NEC	8.2			Noted

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NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051145	CQI-based Transmission Power Control for Control Channel in Evolved UTRA Uplink	NTT DoCoMo, Fujitsu, NEC, Panasonic, SHARP, Toshiba Corporation	8.2	(R1-050852)		Noted
~~R1-051146~~	~~Intra-Node B Orthogonal Pilot Channel for MIMO in Evolved UTRA Downlink~~	~~NTT DoCoMo~~	~~8.3~~			Withdrawn
R1-051147	Basic Structure of Control Channel and Synchronization Channel for Scalable Bandwidth in Evolved UTRA Downlink	NTT DoCoMo, Fujitsu, Mitsubishi Electric Corporation, NEC, Panasonic, Sharp, Toshiba Corporation	8.3	(R1-050592)		Noted
~~R1-051148~~	~~Further Investigation on Intra-Node B Macro Diversity Using Simultaneous Transmission with Soft Combining in Evolved UTRA Downlink~~	~~NTT DoCoMo~~	~~8.3~~			Withdrawn
R1-051149	Adaptive Modulation and Channel Coding Rate Control Method for Frequency Domain Scheduling in Evolved UTRA Downlink	Ericsson, Fujitsu, Mitsubishi Electric Corporation, NEC, NTT DoCoMo, Panasonic, Sharp, Toshiba Corporation	8.3	(R1-050854)		Noted

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NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051150	Transmission Phase Control for Compensating High Fading Correlation in MIMO Multiplexing	NTT DoCoMo, Fujitsu, Mitsubishi Electric Corporation, NEC, Panasonic, Sharp, Toshiba Corporation	8.6	(R1-050856)		Noted
R1-051151	PAPR-Reduction Performance in SC-FDMA Transmission	Intel Corporation, NTT DoCoMo	8.2			Noted
R1-051152	MIMO reference link level simulation results for calibration purposes	Nokia	9			Noted
R1-051153	Link Comparison of Localized vs. Distributed Pilot and Localized vs. Distributed Data	Texas Instruments	8.2			Noted
R1-051154	Link level simulation results for DSTTD- SGRC	Mitsubishi Electric	9			Noted
R1-051155	Proposal for the DL pilots for E-UTRA	Nortel	8.3			Noted
R1-051156	Proposal for the downlink synchronisation channel for E-UTRA	Nortel	8.3			Noted
R1-051157	Text proposal for the DL pilot multiplexing	Nortel	8.3			Noted
R1-051158	DL System level performance evaluation for E-UTRA	Nortel	8.5			Noted
R1-051159	Proposal for DL sub-channelisation for E- UTRA	Nortel	8.3			Noted
R1-051160	UL System level performance evaluation for OFDMA	Nortel	8.5			Noted
R1-051161	UL evaluation for SC-FDMA and OFDMA with real channel estimation	Nortel	8.2			Noted
R1-051162	UL Virtual MIMO Transmission for E-UTRA	Nortel	8.6			Noted
R1-051163	Text proposal for virtual MIMO for UL OFDMA	Nortel	8.6			Noted
R1-051164	Text proposal for virtual MIMO for UL SC- FDMA	Nortel	8.6	R1-051257		Revised in R1-051257
R1-051165	Proposal for the UL multiple access scheme for E-UTRA	Nortel	8.2	= R1-050926		Noted

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NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051166	Text proposal for multiplexing structure for UL OFDMA	Nortel, Intel	8.2	= R1-050976		Revised in R1-051256
R1-051167	Rate-Compatible LDPC codes with low complexity encoder & decoder	Mitsubishi Electric Corporation	8.7			Not Treated
~~R1-051168~~	~~25.212CR0230 (Rel 6, F) "Clarification on mapping of CCTrCH on physical channels"~~	~~STMicroelectronics~~	~~5.4~~			Withdrawn
~~R1-051169~~	~~Numerology and Frame Structure of E-UTRA TDD based on OFDMA and text proposal for TR 25.814~~	~~CATT, RITT, ZTE, Huawei, TD-Tech~~	~~8.3~~			Withdrawn
R1-051170	Pilot Structure Consideration for TDD-OFDM LTE Downlink	CATT, RITT, TD Tech	8.3			Noted
R1-051171	Further Considerations of MC TD-SCDMA	CATT, ZTE	8.4			Agreed. Elaborate in TDM operation in shared channels for next meeting.
R1-051172	Simulcast for MC TD-SCDMA	CATT, ZTE	8.4			Noted
R1-051173	Analysis of Commonalities between TDD & FDD	RITT, CMCC, CATT, Huawei, ZTE, TD-Tech	8.2			Noted
R1-051174	TR structure text proposal for 25.814	CATT, RITT, Huawei, ZTE, TD-Tech	8.2			Noted
R1-051175	Multiple Antenna Technology for E-UTRA	CATT	8.6			Noted
R1-051176	Downlink system level evaluation results for OFDMA TDD with inter-cell interference mitigation	CATT	8.5			Noted
R1-051177	Downlink system level evaluation results for MC TD-SCDMA	CATT	8.4			Noted
R1-051178	Frame structure design and analyze of OFDM TDD for LTE	CATT, RITT, TD-Tech, ZTE, Huawei	8.3			Noted
R1-051179	MIMO Link Level Assumptions for 1.28Mcps TDD	CATT	9	R1-051263		Revised to not include 3.84Mcps TDD specific parameters in R1-051263
R1-051180	Idle period shortening for half duplex communications in large cells	Mitsubishi Electric	8.3			Noted
R1-051181	Different aspects in evaluation of TDD and FDD	Samsung	8.2			Noted

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NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051182	Uplink Macro Diversity for E-UTRA - Summary of Results	Ericsson	8.1			Noted
R1-051183	Uplink macro-diversity for E-UTRA - Further Results	Ericsson	8.1			Noted
R1-051184	PAR-reducing modulation for E-UTRA SC-FDMA uplink, Text proposal	Ericsson, Huawei	8.2			Noted. Consider this TP in R1-051260
R1-051185	PAR-reducing modulation for E-UTRA SC-FDMA uplink	Ericsson	8.2			Noted
R1-051186	Multiple antenna considerations for E-UTRA	Ericsson	8.6			Not Available
R1-051187	E-UTRA downlink reference signal structure	Ericsson, NTTDoCoMo	8.7	R1-051264		Revised in R1-051264
R1-051188	MIMO system level simulations: further results	Ericsson	9			Noted.
R1-051189	MIMO system level simulations: Indoor Scenario results	Ericsson	9			Noted
R1-051190	TP on uplink single-carrier transmission	Ericsson, Fujitsu, Mitsubishi, NTT DoCoMo, NEC, Motorola, Nokia, Panasonic, Samsung, Sharp, Siemens, Toshiba	8.2	R1-051260		Revised in R1-051260
R1-051191	Uplink pilot for SC-FDMA	Huawei	8.2			Noted
R1-051192	EUTRA downlink multiplexing of localized and distributed channels	Huawei	8.3			Noted
R1-051193	MIMO Architectures for 3GPP UTRA Evolution	Institute for Infocomm Research	8.6			Noted
R1-051194	25.211CR0225(Rel-6, F) "Combination of DPCCH and E-DCH"	LG Electronics	5.4	R1-051244		Revised in R1-051244
R1-051195	Pilot Structure for Evolved UTRA OFDMA Downlink	Sharp	8.3			Noted
R1-051196	Control Channel Mapping for MIMO Antennas in Evolved UTRA OFDMA Downlink	Sharp	8.3			Not Treated

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NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051197	Text proposal on PAPR reduction for SC-FDMA	Huawei	8.2			Noted
R1-051198	Link level simulation results for ASTTD	Huawei	9			Noted
R1-051199	Draft Reply LS on Compressed Mode and HARQ interaction for the 10msec TTI	Siemens	4	R1-051243		Revised in R1-051243.
R1-051200	Downlink pilot channel structure and overhead	Siemens	8.3			Noted
R1-051201	Evaluation of Uplink Macro Diversity	Lucent Technologies	8.1			Noted
R1-051202	Usage of MAC-e PDUs for switching between active and idle traffic mode	Lucent Technologies	11			Noted
R1-051203	Windowing and spectral containment for OFDM downlink	Lucent Technologies, France Telecom	8.3			Noted
R1-051204	MIMO TR25.876 Version 1.7.1	Editor (Lucent Technologies)	9	R1-051269		Fix a figure problem in R1-051269.
R1-051205	Text proposal on Uplink DPCCH Gating Concept	Nokia	11			Agreed to be included in TR
R1-051206	UL DPCCH Gating - Link level gain	Nokia	11			Noted
R1-051207	F-DPCCH power control simulation results	Nokia	11			Noted
R1-051208	UL DPCCH Gating - UL Power control error	Nokia	11			Not Available
R1-051209	OFDM/OQAM technical overview	France Telecom, Orange, Alcatel	8.3			Noted
R1-051210	Text proposal for OFDM/OQAM description	France Telecom, Orange, Alcatel	8.3	= R1-050923		Agreed
R1-051211	Text proposal for OFDM/OQAM parameters set	France Telecom, Orange, Alcatel	8.3	= R1-050924		Agreed
R1-051212	Enhancement of Rel. 6 Turbo Code	France Telecom, GET	8.7	R1-051265		Revised in R1-051265
R1-051213	Considerations on E-UTRA MIMO	Nokia	8.6			Noted
R1-051214	Further Link Level Simulation Results on Spatial Temporal Turbo Channel Coding (STTCC) for MIMO	Philips	9			Noted
R1-051215	Text Proposal on "Reduction of control channel overhead for inactive users"	Philips	11			Agreed to be included in TR
R1-051216	Link level performance of PU^2RC (MU-MIMO)	Samsung	9			Noted

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NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051217	Multiplexing of multicast/broadcast and unicast services	China Mobile, Huawei	8.3			Not Available
R1-051218	Inter-sector diversity for downlink	China Mobile, Huawei	8.6			Not Available
R1-051219	Text proposal for TR 25.9xx on Power Control Simulation Results for Continuous Connectivity	Siemens	11	R1-051279		Revised in R1-051279
R1-051220	Downlink Multiplexing for EUTRA	Samsung	8.3			Noted
R1-051221	TR 25.809 v0.3.1	IPWireless	7			Endorsed to v0.4.0 in R1-051250
R1-051222	TS 25.202 v0.2.1	IPWireless	7			Endorsed to v0.3.0 in R1-051251
R1-051223	7.68Mcps TDD option: HSDPA aspects of TS 25.221	IPWireless	7			Agreed to be included in TS and TR
R1-051224	SCH channel definition for the 7.68Mcps TDD option	IPWireless	7			Agreed to be included in TS and TR
R1-051225	Transport channel processing for the 7.68Mcps TDD option	IPWireless	7			Withdrawn
R1-051226	Physical layer procedures for the 7.68Mcps TDD option	IPWireless	7			Agreed to be included in TS and TR
R1-051227	Timeslot formats for the 7.68Mcps TDD option	IPWireless	7			Withdrawn
R1-051228	Tx diversity for the 7.68Mcps option	IPWireless	7			Agreed to be included in TS and TR
R1-051229	7.68Mcps TDD option: Physical channel combination in uplink	IPWireless	7			Withdrawn
R1-051230	7.68Mcps TDD option: Beacon channel aspects	IPWireless	7			Agreed to be included in TS and TR
R1-051231	TR 25.826 v0.1.1	IPWireless	6			Endorsed to 0.2.0 in R1-051245
R1-051232	EU-TDD: Power Control of E-DCH physical channels	IPWireless	6	R1-051247		Revised in R1-051247
R1-051233	EU-TDD: HARQ timing aspects	IPWireless	6			Agreed to be included in TR
R1-051234	Per-Antenna Rate Control for UTRA TDD: Additional Link Level Results	IPWireless	9			Noted
R1-051235	System Level Simulation Parameters for Evaluating MIMO Performance in UTRA TDD	IPWireless	9	R1-051271		Revised in R1-051271
R1-051236	Issue and Discussion on Uplink Macro-Diversity	Cingular Wireless	8.1			Noted
R1-051237	PAPR and Cubic Metric from a System Point of View for EUTRA Uplink	Motorola	8.2			Noted

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NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051238	Summary of MIMO schemes for EUTRA	Motorola	8.6			Noted
R1-051239	Simulation results for DL EUTRA	Motorola	8.5			Noted
R1-051240	UL OFDMA Performance with Real Channel Estimation	Nortel	8.2			Noted
R1-051241	Numerology and Frame Structure of EUTRA TDD based on OFDMA and text proposal for TR 25.814	CATT, RITT, ZTE, Huawei, TD-Tech	8.3			Noted
R1-051242	DL pilot structure and synchronization aspects	Nokia	8.3	(R1-051089)		Noted
R1-051243	Draft Reply LS on Compressed Mode and HARQ interaction for the 10msec TTI	Siemens	4	(R1-051199)		Approved in R1-051287
R1-051244	25.211CR0225(Rel-6, F) "Combination of DPCCH and E-DCH"	LG Electronics	5.4	(R1-051194)		Agreed
R1-051245	TR 25.826 v0.2.0	IPWireless	6			Endorsed version
R1-051246	Letter from TTA PG302 (Portable Internet Project Group) on WiBro	TTA PG302	4			Noted
R1-051247	EU-TDD: Power Control of E-DCH physical channels	IPWireless	6	(R1-051232)		Agreed to be included in TR
R1-051248	UL Macro-Diversity Further System Level Considerations	Siemens	8			Noted
R1-051249	Draft LS on TSG RAN WG1 Uplink MDC studies to TSG RAN WG2/WG3	Nokia	8			Noted
R1-051250	TR 25.809 v0.4.0	IPWireless	6	R1-051221		Endorsed version
R1-051251	TS 25.202 v0.3.0	IPWireless	7	R1-051222		Endorsed version
R1-051252	TR25.814 v.0.3.0 Physical Layer Aspects for Evolved UTRA	Editor(NTT DoCoMo)	8			Endorsed version
R1-051253	EUTRA Uplink Cell Edge Enhancements and Macrodiversity	Motorola	8,1	(R1-51031)		Not treated
R1-051254	LS on UTRA LTE UL macrodiversity performance results	RAN WG1	8,1	R1-051254		Revised in R1-051255
R1-051255	LS on UTRA LTE UL macrodiversity performance results	RAN WG1	8,1	(R1-051254)		Approved
R1-051256	Text proposal for multiplexing structure for UL OFDMA	Nortel	8,2	(R1-051166)		Revised in R1-051289
R1-051257	Text proposal for virtual MIMO for UL OFDMA and UL SC-FDMA	Nortel	8,6	(R1-051163, R1-051164)		Agreed

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R1-051568

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051258	TP for Multiplexing Method of Shared Control Channel in Uplink Single-Carrier FDMA Radio Access	NTT DoCoMo, Fujitsu, Mitsubishi Electric Corporation, NEC, Panasonic, SHARP, Samsung, Toshiba Corporation	8.2			Agreed
R1-051259	Text proposal for TR25.814, Section 9.1.1.2.1	Ericsson	8,2			Agreed
R1-051260	TP for uplink single carrier transmission	Ericsson, Fujitsu, Mitsubishi, NTT DoCoMo, NEC, Motorola, Nokia, Panasonic, Samsung, Sharp, Siemens, Toshiba, Texas Instruments, Huawei	8,2	(R1-051190)		Agreed
R1-051261	Enhancement of Distributed Mode for Maximizing Frequency Diversity	KDDI	8,3			Not Treated
R1-051262	MIMO TR25.876 Version 1.7.2	Editor (Lucent Technologies)	9	(R1-051204)		Endorsed v 1.8.0 in R1-051269
R1-051263	MIMO Link Level Assumptions for 1.28Mcps TDD	CATT	9	(R1-051179)		Agreed

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NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051264	TP for Downlink pilot structure	Alcatel, Ericsson, Huawei, IPWireless, Lucent, Mitsubishi, Motorola, NEC, Nokia, Nortel, NTT DoCoMo, Panasonic, Qualcomm Europe , Samsung, Sharp, Siemens, Texas Instruments, Toshiba	8,3	R1-051270		Revised in R1-051270
R1-051265	Enhancement of Rel. 6 Turbo Code	France Telecom, GET	8.7	(R1-051212)		Not Treated
R1-051266	System level parameters for MIMO evaluation	Qualcomm Europe	9	(R1-051121)		Revised in R1-051275
R1-051267	Qualitative evaluation of MIMO schemes for OFDM based E-UTRA downlink	Qualcomm Europe	8.6	(R1-051124)		To be sent by Qualcomm to by RAN1 email reflector
R1-051268	TP for LTE MIMO aspects	MIMO Ad-Hoc	8,6	R1-051272		Revised in R1-051272
R1-051269	MIMO TR25.876 Version 1.8.0	Editor (Lucent Technologies)	9			Endorsed version

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NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051270	TP for Downlink pilot structure	Alcatel, Ericsson, Huawei, IPWireless, Lucent, Mitsubishi, Motorola, NEC, Nokia, Nortel, NTT DoCoMo, Panasonic, Qualcomm Europe , Samsung, Sharp, Siemens, Texas Instruments, Toshiba	8,3	(R1-051264)		Agreed
R1-051271	System level parameters for MIMO evaluation (TDD)	IPWireless	9			Agreed
R1-051272	TP for LTE MIMO aspects	MIMO Ad-Hoc	8,6	R1-051283		Revised in R1-051283
R1-051273	TP-A modification of frame structure for CP length	ZTE	8.3			Not Treated
R1-051274	MIMO report (LTE part and MIMO Rel-7 part)	MIMO Adhoc Chariman	9			Endorsed. Deadline for new LTE MIMO proposals (for the SI) is RAN1#43.
R1-051275	System level parameters for MIMO evaluation	MIMO Ad-Hoc	9			Agreed
R1-051276	Text proposal for E-UTRA TDD frame structure	CATT, Ericsson, Huawei, IPWireless, Mitsubishi Electric, Motorola, RITT, Samsung, TD- Tech, ZTE	8	(R1-051036)		Agreed
R1-051277	TP for switching between active and idle traffic mode	Lucent Technologies	11			Noted
R1-051278	Skeleton TR 25.9xx v0.0.2 Continuous Connectivity for Packet Data Users	Siemens	11	(R1-051127)		Agreed. TR number will be 25.903.

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Seoul, Korea, 7 – 11 November, 2005

R1-051568

NUMBER	TITLE	SOURCE	AGEND A ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-051279	Text proposal for TR 25.9xx on Power Control Simulation Results for Continuous Connectivity	Siemens	11	(R1-051219)		Noted
R1-051280	Text proposal for TR 25.9xx for Comparing Continuous Connectivity Concepts	Siemens, Philips, Nokia	11	(R1-051129)		Noted without the presentation
R1-051281	Draft LS to RAN2, RAN3, RAN4 on 'Continuous connectivity for packet data users'	Siemens	11			Approved in R1-051294 on the RAN1 reflector.
R1-051282	TP on MC-WCDMA operation in unpaired spectrum	Qualcomm Europe	8,4	(R1-051111)		Agreed
R1-051283	TP for LTE MIMO aspects	MIMO Ad-Hoc	8,6	(R1-051272)		Agreed
R1-051284	A flexible E-UTRA frame structure for compatibility with UTRA TDD modes	IPWireless, Mitsubishi	8,7			Not Treated
R1-051285	LS on High Bit Rate SRB	WG RAN2, Siemens	4			Noted. Prepare a response for RAN1#43
R1-051286	LS on verification of L1 parameters for multi-rate AMR-NB RAB using SRB#5	RAN2, Nortel	4			Noted. Prepare a response for RAN1#43
R1-051287	Reply LS on Compressed Mode and HARQ interaction for the 10msec TTI	RAN WG1	4			Approved Version
R1-051288	LS on Puncturing limit for Conversational / speech 12.2 kbps + Interactive 0 kbps	RAN WG1	5.5	(R1-051081)		Approved Version
R1-051289	Text proposal for multiplexing structure for UL OFDMA	Nortel	8,2	(R1-051256)		Agreed
R1-051290	Approved report from RAN1#42	RAN1 Secretary	3			Approved Version
R1-051291	Text proposal for TR 25.903 for email discussion	Siemens	11			This TP was sent on the RAN1 reflector as the results of e-mail discussion after the meeting. After the sending this TP, there was further discussion on the text proposal. The discussion was reflected in TR25,903 version 0.3.0 in R1-051292.
R1-051292	TR 25.903 v0.0.3 Continuous Connectivity for Packet Data Users	Editor, Siemens	11			Endorsed as version 0.1.0 on the RAN1 reflector
R1-051293	TR 25.903 v0.1.0 Continuous Connectivity for Packet Data Users	Editor, Siemens	11			Endorsed version
R1-051294	LS to RAN2/RAN3/RAN4 on Continuous Connectivity for Packet Data Users (To: RAN2, RAN3, RAN4)	RAN WG1	11			Approved version

